



Michigan Refining Division

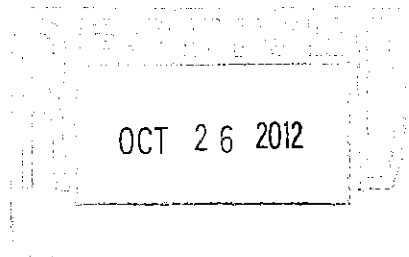
Marathon Petroleum Company LP

1300 South Fort Street
Detroit, MI 48217
Telephone 313/843-9100

FEDERAL EXPRESS

October 24, 2012

Ms. Wilhelmina McLemore
MDEQ – Air Quality Division
Cadillac Place
3058 West Grand Boulevard
Suite 2-300
Detroit, MI 48202



**RE: Third Quarter 2012 Leak Detection and Repair, Wastewater VOC, and
Benzene Waste NESHAP Certification and Compliance Report**

Dear Ms. McLemore:

This report is being submitted by the Michigan Refining Division of Marathon Petroleum Company LP (MPC) to fulfill the requirements of:

- The fugitive and wastewater VOC emissions monitoring program for the third quarter of 2012. This report is required by Michigan Air Rule 622, U.S. EPA's New Source Performance Standards (NSPS), and the National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries. In addition, this report contains information required by Paragraph 200iic of the First Modification to the November 2005 First Revised Consent Decree (CD), United States of America et. al. v. Marathon Petroleum Company LP (MPC) (Civil Action No. 4:01CV-40119-PVG), lodged February 7, 2008 and entered on March 31, 2008.
- The Benzene Waste NESHAP Subpart FF Certification and Compliance report for the third quarter of 2012. This report is required by 40 CFR 61 Subpart FF and Paragraph 18.P.ii.b of the Consent Decree.

The attached tables include information necessary for compliance with these requirements.

Table 1 lists MPC process units (NSPS VV Section 60.487 (c)(1)) and summarizes the process unit shutdowns that occurred during this quarter (NSPS VV Section 60.487 (c)(3)). Table 1 also includes the approximate number of components present in each unit at the beginning and ending of the reporting period (NSPS VV Section 60.487(c)(4)).

Table 2 lists the components found leaking and an exceedance summary for various pieces of control equipment or treatment processes during this quarter and the dates of repair (NSPS VV Section 60.487(c)(2) and 40 CFR 61.357(d)(7)).

Table 3 lists leaking components on delay of repair (NSPS VV Section 60.487(c)(2)). This information is also required by Paragraph 20.O.ii.c.2.f of the CD.

Table 4 includes information satisfying NSPS Subpart QQQ (Section 60.698(c)) requirements.

This table summarizes drain and junction box inspections that identified seals with low water level or other problems that could result in VOC emissions. In addition, subsequent corrective actions and/or repairs are identified. All required inspections for the QQQ standards have been completed as required.

Table 5 presents measures that MPC took to satisfy Paragraphs 20.O.ii.c.1 and 18.P.ii.b of the CD.

Table 6 lists specific monitoring information as required per Paragraph 20.O.ii.c.2.a-e of the CD.

Table 7 contains the certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61.357(d)(6).

Table 8 contains the exceedance summary for various pieces of control equipment or treatment processes as required in 40 CFR 61.357(d)(7) and 40 CFR 60.692-5(e)(5).

Table 9 contains the End of Line calculation as required per Paragraph 18.K.iii and 18.P.ii.b of the CD. The refinery received written approval of the End of Line Sampling Plan on March 8, 2010.

Table 10 includes information satisfying Benzene Waste NESHAP Subpart FF (Section 61.357(d)(8)) requirements.

This table summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified. Additionally, subsequent corrective actions and/or repairs are identified.

Ms. McLemore
October 24, 2012
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Please contact Ms. Kristen Schnipke (313) 297-4750 or Mr. Greg Shay (313) 297-6115 if you have any questions concerning this submittal.

Sincerely,

Marathon Petroleum Company LP

By: MPC Investment LLC, General Partner

A handwritten signature in black ink, appearing to read "C.T. Case". The signature is fluid and cursive, with the first name "C.T." being more prominent than the last name "Case".

Mr. C.T. Case, Deputy Assistant Secretary

Attachments

cc: U.S. EPA, Director of Regulatory Enforcement c/o Matrix Environmental and
Geotechnical – *Federal Express*
Air and Radiation Division, U.S. EPA Region 5 – *Federal Express*
Office of Regional Counsel, U.S. EPA Region 5 – *Federal Express*

MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
AIR QUALITY DIVISION

**RENEWABLE OPERATING PERMIT
REPORT CERTIFICATION**

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Natural Resources and Environment, Air Quality Division upon request.

Source Name Marathon Petroleum Company IP County Wayne

Source Address 1300 South Fort Street City Detroit

AQD Source ID (SRN) A9831 ROP No. 199700013c ROP Section No. 01

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

- ☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.
- ☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

- ☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.
- ☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 7/1/2012 To 9/30/2012

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Third Quarter Leak Detection and Repair, Benzene Waste NESHAP and QQQ Report

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

C.T. Case

**MPC Investment LLC,
its General Partner
Deputy Assistant Secretary**

(313) 843-9100

Name of Responsible Official (print or type)

Title

Phone Number

Signature of Responsible Official

Date

* Photocopy this form as needed.

EQP 5736 (Rev 2-10)

Table 1
Component Summary - Third Quarter 2012
Michigan Refining Division

Complex	Unit	Description	Approximate Number of Components						Dates of Shutdown
			Pumps		Valves		Compressors		
			6/30/2012	8/31/2012	6/30/2012	8/31/2012	6/30/2012	8/31/2012	
1	4	Vacuum Unit	5	5	564	562	2	2	9/5/2012-11/5/2012
	5	Crude Unit	32	32	2,300	2,300	0	0	9/5/2012-11/5/2012
	29	Wastewater Plant	18	18	852	828	0	0	
2	7	Distillate Hydrotreater Unit	21	21	1,414	1,414	3	3	9/5/2012-11/5/2012
	8	Gas Oil Hydrotreater Unit	5	5	1,707	1,712	2	2	9/5/2012-11/5/2012
	9	Alkylation Unit	30	30	2,081	2,077	1	1	9/5/2012-11/5/2012
3	11	Fluid Catalytic Cracking Unit	6	6	483	483	0	0	9/5/2012-11/5/2012
	13	Propylene Unit	9	9	698	698	3	3	9/5/2012-11/5/2012
	12 21	Gas Con/SAT'S Depropanizer/Treaters	27	27	2,160	2,160	1	1	9/5/2012-11/5/2012
4	14	Continuous Catalytic Reformer Unit	14	14	2,071	2,070	2	2	9/5/2012-11/5/2012
	16	Naphtha Hydrotreater Unit	23	23	1,971	1,980	0	0	9/5/2012-11/5/2012
	19	Kerosene Hydrotreater Unit	8	8	691	699	1	1	8/25/2012-11/5/2012
5	1	Crude Tank Farm	24	24	811	811	0	0	9/5/2012-11/5/2012
	2	LPG Tank Farm	20	20	2,150	2,070	0	0	9/5/2012-11/5/2012
	3/4	CP/Melvindale Tank Farms	31	31	1,538	1,721	0	0	9/5/2012-11/5/2012
	38	Rouge Terminal	2	2	50	52	0	0	
		Light Products Terminal	15	15	808	808	0	0	

Table 2
Leakers Detected During Third Quarter 2012
Michigan Refining Division

Month	Complex	Unit	VOC Tag I.D.	Component Type	Date Leak Detected	Date of Repair*
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SEE ATTACHED TABLE

*R/D = Repair Delay S/D = Shutdown Required



MARATHON - DETROIT
1300 SOUTH FORT STREET
DETROIT, MI 48217

10/02/2012

LEAKING EQUIPMENT LOG

Program: NSPS-GGGA

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 04

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
32380	VALVE/ INSTR	0.50	4C4B ABV INST VLV TO PI @ SEAL DRUM VAPORS LINE								
				08/10/2012	M21	3292 PPM	VLV-SCF	08/10/2012	VLV-CL	4838.00	
				08/10/2012	M21	4838 PPM		08/13/2012	VLV-TCO N	8.00	
				08/13/2012	M21	8 PPM					08/13/2012

Process Unit 04 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 05

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
1-00839	VALVE	3.00	W OF 5H1 CRDE HTRFUEL DEBUT OH CNTRL LP 5FV220	07/23/2012	M21	20500 PPM	VLV-PKG	07/23/2012	VLV-CL	7312.00	
				07/23/2012	M21	7312 PPM					07/23/2012
23963	PUMP	0.00	ALLEYWAY E CNTRL RM 5P28A DEBOT OH PMP OH ON SMP LNE	07/02/2012	VIS	F	PMP-SEAL	07/02/2012	PMP-WS E	26.00	
				07/02/2012	M21	26 PPM					
				07/03/2012	VIS	P					
				07/03/2012	M21	27 PPM					
				07/09/2012	VIS	P					
				07/16/2012	VIS	P					
				07/23/2012	VIS	P					
				07/30/2012	VIS	P					
				08/06/2012	VIS	P					
				08/13/2012	VIS	P					
				08/13/2012	M21	8.77 PPM					
				08/13/2012	VIS	P					08/13/2012
41025	PUMP	0.00	Crude pump 5P78A hampton /preflash roadway	07/02/2012	VIS	F	PMP-SEAL	07/02/2012	PMP-WS E	7384.00	
				07/02/2012	M21	7384 PPM		07/02/2012	PMP-WS E	7510.00	
				07/02/2012	M21	7510 PPM		07/02/2012	PMP-WS E	0.00	
				07/09/2012	VIS	P					07/09/2012

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 05

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
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Process Unit 05 Summary

	Component Count	Leak Count
Total in Group	3	3
Total Valves	1	1
Total Pumps	2	2
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 04

Compliance Group : 05

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
27331	PUMP/ RECIPRO	0.00	4P47 SLOP PMP TANK 508-								
				07/02/2012	VIS	F	PMP-SEAL	07/02/2012	PMP-WS E	10000.00	
				07/02/2012	M21	10000 PPM		07/02/2012	PMP-WS E	10000.00	
				07/02/2012	M21	10000 PPM		07/03/2012	PMP-WS E	7600.00	
				07/03/2012	M21	7600 PPM					
				07/09/2012	VIS	P					
				07/16/2012	VIS	P					
				07/23/2012	VIS	P					
				07/30/2012	VIS	P					
				08/06/2012	VIS	P					
				08/10/2012	M21	5.94 PPM					08/10/2012

Process Unit 04 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	0	0
Total Pumps	1	1
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 29

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
11889	VALVE	0.00	20' EAST OF KVP BUILDING @ NORTH SIDE OF 4 BAY 6' WEST OF FENCE								
				06/22/2012	M21	661 PPM	VLV-PKG	06/22/2012	VLV-CL	1421.00	
				06/22/2012	M21	1421 PPM		07/03/2012	VLV-TP	0.00	
				07/03/2012	M21	0 PPM					07/03/2012

Process Unit 29 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 07

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2-01149	PUMP/ CENTRIF	0.00	7P11 RECONTACTING PUMP-07-07	*** Placed on Delay for Turnaround on 05/02/2012 Removed From Turnaround List on 05/22/2012							
				04/18/2012	VIS	F	PMP-SEAL	04/18/2012	PMP-WS E	0.00	
				05/02/2012	VIS	P					
				05/10/2012	VIS	P					
				05/15/2012	VIS	P		05/22/2012	PMP-SEJ	0.00	
				05/22/2012	VIS	P					
				05/22/2012	M21	3.77 PPM					
				05/24/2012	VIS	P					
				05/29/2012	VIS	P					
				06/05/2012	VIS	P					
				06/12/2012	VIS	P					
				06/19/2012	VIS	P					
				06/20/2012	M21	4.72 PPM					
				06/27/2012	VIS	P					
				07/02/2012	VIS	P					
				07/10/2012	VIS	P					
				07/19/2012	VIS	P					
				07/23/2012	VIS	P					
				07/23/2012	M21	7.33 PPM					
				08/01/2012	VIS	P					
				08/10/2012	VIS	P					
				08/14/2012	VIS	P					
				08/14/2012	M21	12.27 PPM					
				08/23/2012	VIS	P					
				08/29/2012	VIS	P					

Process Unit : 07

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
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Process Unit 07 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	0	0
Total Pumps	1	1
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 08

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
08777	RELIEF/ PR-CVS	1.50	L1/7 WEST OF FINFANS ON FLARE DECK RECYCLE DISC 2. 08PSV6810	*** Placed on Delay for Turnaround on 02/29/2012							
				02/16/2012	M21	1637 PPM	REL-SEAT	02/16/2012	VLV-NM	1465.00	
				02/16/2012	M21	1465 PPM					
				04/18/2012	M21	8836 PPM		04/18/2012	REL-WS EAL	7889.00	
				04/18/2012	M21	7889 PPM					
				05/03/2012	M21	18.09 PPM		06/22/2012	REL-WS EAL	10300.00	
				06/29/2012	M21	10300 PPM					
				07/31/2012	M21	6.48 PPM					
				08/14/2012	M21	1.04 PPM					

Process Unit 08 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	0	0
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	1	1
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
09C1	COMPRESSOR/ CENTRIFUGE	0.00	9C1 ALKY COMPRESSOR	*** Placed on Delay for Turnaround on 11/23/2009							
				11/12/2009	M21	11300 PPM	COM-CSE AL	11/17/2009	CMP-WO	15000.00	
				11/17/2009	M21	15000 PPM					
				12/29/2009	M21	4964 PPM					
				01/14/2010	M21	11245 PPM		01/14/2010	VLV-SEJ	9911.00	
				01/14/2010	M21	9911 PPM					
				02/03/2010	M21	10253 PPM		02/03/2010	VLV-SEJ	9856.00	
				02/03/2010	M21	9856 PPM					
				03/23/2010	M21	1563 PPM					
				04/30/2010	M21	155 PPM					
				05/23/2010	M21	331 PPM		06/30/2010	CMP-WO	1601.00	
				06/30/2010	M21	1601 PPM					
				07/15/2010	M21	178 PPM					
				08/24/2010	M21	53.8 PPM					
				09/29/2010	M21	164 PPM					
				10/06/2010	M21	208 PPM		11/30/2010	CMP-WO	2313.00	
				11/30/2010	M21	2313 PPM					
				11/30/2010	M21	3411 PPM		01/14/2011	CMP-WO	2404.00	
				01/14/2011	M21	2404 PPM					
				01/14/2011	M21	29.88 PPM					
				02/17/2011	M21	140 PPM					
				04/26/2011	M21	20.18 PPM					
				05/04/2011	M21	1748 PPM					
				06/20/2011	M21	1291 PPM					
				07/11/2011	M21	70.24 PPM		08/17/2011	CMP-WO	100000.00	
				08/17/2011	M21	100000 PPM					

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				08/17/2011	M21	102000 PPM		09/29/2011	CMP-WO	75000.00	
				09/29/2011	M21	75000 PPM					
				09/29/2011	M21	198700 PPM		10/10/2011	CMP-WO	79400.00	
				10/10/2011	M21	79400 PPM					
				10/10/2011	M21	133200 PPM		11/30/2011	CMP-WO	110400.00	
				11/30/2011	M21	110400 PPM					
				11/30/2011	M21	124500 PPM		12/15/2011	CMP-WO	144900.00	
				12/15/2011	M21	144900 PPM					
				12/15/2011	M21	18800 PPM		01/03/2012	CMP-WO	17900.00	
				01/03/2012	M21	17900 PPM					
				01/03/2012	M21	207500 PPM					
				02/14/2012	M21	959 PPM		03/21/2012	COM-ST EAM	231600.00	
				03/21/2012	M21	231600 PPM					
				03/21/2012	M21	14700 PPM		04/04/2012	CMP-WO	73100.00	
				04/04/2012	M21	73100 PPM					
				04/04/2012	M21	84800 PPM					
				05/22/2012	M21	17500 PPM					
				06/22/2012	M21	2118 PPM					
				07/13/2012	M21	4744 PPM		08/17/2012	COM-AT S	21043.00	
				08/17/2012	M21	21043 PPM					

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
15601	VALVE/ BALL	1.00	TOP PLATFORM E OF 9V18.	08/17/2012	M21	45996 PPM					
				*** Placed on Delay for Turnaround on 01/06/2012							
				01/04/2012	M21	84700 PPM	VLV- SGL	01/04/2012	VLV-TCO N	25.42	
				02/29/2012	M21	25.42 PPM					
				03/21/2012	M21	56.29 PPM		04/04/2012	VLV-CL	3956.00	
				04/04/2012	M21	3956 PPM					
				04/04/2012	M21	3275 PPM					
				05/22/2012	M21	193 PPM		06/22/2012	VLV-CL	2578.00	
				06/22/2012	M21	2578 PPM					
				06/22/2012	M21	5736 PPM		07/24/2012	VLV-CL	3257.00	
				07/24/2012	M21	3257 PPM					
				07/24/2012	M21	4531 PPM		08/17/2012	VLV-CL	3732.00	
				08/17/2012	M21	3732 PPM					
				08/17/2012	M21	2721 PPM					
19457	PUMP	0.00	6/O 9P4B	08/17/2012	M21	35600 PPM	PMP-TUB	08/17/2012	PMP-WS E	6598.00	
				08/17/2012	M21	6598 PPM					08/17/2012
19995	VALVE	0.00	6/4 BY SMPLE STAT	07/16/2012	M21	46100 PPM	VLV-CAP	07/16/2012	VLV-CL	32400.00	
				07/16/2012	M21	32400 PPM		07/17/2012	VLV-CAP	230.00	
				07/17/2012	M21	230 PPM					07/17/2012
19995	VALVE	0.00	6/4 BY SMPLE STAT	08/17/2012	M21	10700 PPM	VLV-CAP	08/17/2012	VLV-CL	15700.00	
				08/17/2012	M21	15700 PPM		08/20/2012	VLV-TCA P	50.00	
				08/20/2012	M21	50 PPM					08/20/2012

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2-00140	VALVE/ GATE	0.00	6/2 9P9A SSDE BLEED LINE	07/12/2012	M21	17600 PPM	VLV-PLUG	07/12/2012	VLV-CL	8581.00	
				07/12/2012	M21	8581 PPM					07/12/2012
2-00201	VALVE	0.75	G/6 SW SDE 9E10A TUBE OFF ILET	07/18/2012	M21	11200 PPM	VLV-PKG	07/18/2012	VLV-CL	10900.00	
				07/18/2012	M21	10900 PPM		07/19/2012	VLV-TP	240.00	
				07/19/2012	M21	240 PPM					07/19/2012
2-01602	VALVE/ GATE	0.75	SW OF 9V38 OVHD	07/19/2012	M21	11000 PPM	VLV-PKG	07/19/2012	VLV-CL	8295.00	
				07/19/2012	M21	8295 PPM					07/19/2012
2-01653	VALVE/ GATE	3.00	FC514 CONTROL VLV ALKY BATTERY LIMITSGROUND LEVE	07/12/2012	M21	44500 PPM	VLV-BON	07/12/2012	VLV-CL	16700.00	
				07/12/2012	M21	16700 PPM		07/16/2012	VLV-CL	4.00	
				07/16/2012	M21	4 PPM					07/16/2012
20225	PUMP	0.00	6/0 9P6	08/17/2012	M21	11800 PPM	PMP-SEAL	08/17/2012	PMP-WS E	5363.00	
				08/17/2012	M21	5363 PPM					08/17/2012
21151	VALVE/ GATE	0.75	G/10 CNTLP 10FT N OF 9E35	07/12/2012	M21	16700 PPM	VLV-SCR	07/12/2012	VLV-CL	6914.00	
				07/12/2012	M21	6914 PPM					07/12/2012
22655	VALVE/ QUICK	0.75	W OF 9C1 G/2	07/17/2012	M21	14300 PPM	VLV-PKG	07/18/2012	VLV-CP	120.00	
				07/18/2012	M21	120 PPM					07/18/2012
24110	VALVE/ BALL	0.00	SMPLSTAT 5FT N OF 9E35 REPLACEMENT IN KIND WITH TAG 33460	04/22/2009	M21	35600 PPM	VLV-BON	04/22/2009	VLV-TBO N	31100.00	
				04/22/2009	M21	31100 PPM		05/28/2009	VLV-TBO N	1260.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				05/28/2009	M21	1260 PPM					
				06/29/2009	M21	623 PPM		06/29/2009	VLV-TBO N	610.00	
				06/29/2009	M21	610 PPM					
				07/16/2009	M21	3616 PPM		07/16/2009	VLV-TBO N	1267.00	
				07/16/2009	M21	1267 PPM					
				08/17/2009	M21	2294 PPM		08/17/2009	VLV-TBO N	2065.00	
				08/17/2009	M21	2065 PPM					
				09/14/2009	M21	5222 PPM		09/14/2009	VLV-TBO N	4830.00	
				09/14/2009	M21	4830 PPM					
				10/14/2009	M21	4 PPM					
				11/20/2009	M21	46 PPM					
				12/10/2009	M21	46 PPM					
				01/12/2010	M21	189 PPM					
				02/02/2010	M21	3 PPM		03/23/2010	VLV-TBO N	774.00	
				03/23/2010	M21	774 PPM					
				03/23/2010	M21	931 PPM					
				04/18/2010	M21	17.41 PPM					
				05/23/2010	M21	1531 PPM		06/30/2010	VLV-TBO N	2264.00	
				06/30/2010	M21	2264 PPM					
				06/30/2010	M21	1955 PPM		07/07/2010	VLV-TBO N	2815.00	
				07/07/2010	M21	2815 PPM		07/07/2010	VLV-TBO N	2730.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				07/07/2010	M21	2730 PPM					
				08/24/2010	M21	144 PPM		09/21/2010	VLV-CL	460.00	
				09/21/2010	M21	460 PPM					
				09/21/2010	M21	156 PPM					
				10/03/2010	M21	74.22 PPM		11/29/2010	VLV-RV	2.00	
				11/29/2010	M21	2 PPM					
27200	VALVE/ BALL	0.25	SMPLSTAT 5FT N OF 9E35 REPLACEMENT IN KIND WITH TAG 33459	*** Placed on Delay for Turnaround on 01/23/2009 Removed From Turnaround List on 11/29/2010							
				04/22/2009	M21	12500 PPM	VLV-BON	04/22/2009	VLV-TBO N	954.00	
				05/28/2009	M21	954 PPM		05/28/2009	VLV-TBO N	986.00	
				06/29/2009	M21	986 PPM		06/29/2009	VLV-TBO N	900.00	
				06/29/2009	M21	900 PPM					
				07/20/2009	M21	16 PPM					
				08/17/2009	M21	36 PPM					
				09/14/2009	M21	37 PPM					
				10/14/2009	M21	42 PPM					
				11/20/2009	M21	43 PPM					
				12/10/2009	M21	41 PPM					
				01/12/2010	M21	21 PPM					
				02/02/2010	M21	3 PPM					
				03/23/2010	M21	46.49 PPM					
				04/18/2010	M21	52.12 PPM					
				05/23/2010	M21	26.37 PPM					
				06/30/2010	M21	37.23 PPM		07/07/2010	VLV-TBO N	434.00	
				07/07/2010	M21	434 PPM					

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				07/07/2010	M21	64.78 PPM					
				08/24/2010	M21	47.85 PPM					
				09/21/2010	M21	181 PPM					
				10/03/2010	M21	19.44 PPM		11/29/2010	VLV-RV	4.00	
				11/29/2010	M21	4 PPM					
32666	VALVE/ GATE	0.75	9V40 NE UP PLTF @ 6" LINE OUT OF TOP OF VSL	07/12/2012	M21	10900 PPM	VLV-PKG	07/12/2012	VLV-CL	60700.00	
				07/12/2012	M21	60700 PPM		07/16/2012	VLV-TCO N	105.00	
				07/16/2012	M21	105 PPM					07/16/2012
34696	VALVE	0.25	NE SIDE OF 9E6 @ QUICK OPEN SAMPLE STATION VLV 9C1 G/4	07/17/2012	M21	79300 PPM	VLV-TUB	07/17/2012	VLV-CL	34400.00	
				07/17/2012	M21	34400 PPM		07/18/2012	VLV-CAP	3.00	
				07/18/2012	M21	3 PPM					07/18/2012
41470	VALVE	3.00	CNTLP 10FT S 9V8	07/16/2012	M21	10100 PPM	VLV-PKG	07/17/2012	VLV-TP	60.00	
				07/17/2012	M21	60 PPM					07/17/2012

Process Unit 09 Summary

	Component Count	Leak Count
Total in Group	16	17
Total Valves	13	14
Total Pumps	2	2
Total Compressors	1	1
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
24342	VALVE/ GATE	0.50	EL 7 FT 1 FT E OF 12P137 - N PRESS TAP REPLACEMENT IN KIND WITH TAG 33421	*** Placed on Delay for Turnaround on 08/31/2007 Removed From Turnaround List on 11/23/2010							
				08/18/2007	M21	26200 PPM	VLV-SCR	08/18/2007	VLV-WO W	26200.00	
				08/18/2007	M21	26200 PPM					
				08/18/2007	M21	26200 PPM					
				09/27/2007	M21	14900 PPM					
				10/31/2007	M21	801 PPM					
				11/05/2007	M21	88000 PPM		11/05/2007	VLV-TPL G	60000.00	
				11/05/2007	M21	60000 PPM					
				11/29/2007	M21	60000 PPM					
				12/28/2007	M21	91 PPM		01/31/2008	VLV-TFIT T	4850.00	
				01/31/2008	M21	4850 PPM					
				02/07/2008	M21	1521 PPM		02/07/2008	VLV-TFIT T	2269.00	
				02/07/2008	M21	2269 PPM					
				05/29/2008	M21	35 PPM					
				08/13/2008	M21	23 PPM					
				09/11/2008	M21	7 PPM					
				10/21/2008	M21	3642 PPM		10/21/2008	VLV-TPL G	584.00	
				10/21/2008	M21	584 PPM					
				11/24/2008	M21	128400 PPM		11/24/2008	VLV-TPL G	218400.00	
				11/24/2008	M21	218400 PPM					
				12/17/2008	M21	8 PPM					
				01/27/2009	M21	106 PPM					
				02/05/2009	M21	991559		02/05/2009	VLV-TPL	990016.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
						PPM				G	
				02/05/2009	M21	990016 PPM					
				03/02/2009	M21	3552 PPM		03/02/2009	VLV-TFIT	3421.00	
									T		
				03/02/2009	M21	3421 PPM					
				04/30/2009	M21	12 PPM					
				05/04/2009	M21	126200 PPM		05/04/2009	VLV-TPL	124000.00	
									G		
				05/04/2009	M21	124000 PPM					
				06/22/2009	M21	17 PPM					
				07/31/2009	M21	13 PPM					
				08/05/2009	M21	28 PPM					
				09/23/2009	M21	78400 PPM		09/23/2009	VLV-TPL	22300.00	
									G		
				09/23/2009	M21	22300 PPM					
				10/28/2009	M21	2017 PPM		10/28/2009	VLV-TPL	4520.00	
									G		
				10/28/2009	M21	4520 PPM					
				11/17/2009	M21	21333 PPM		11/17/2009	VLV-TPL	19884.00	
									G		
				11/17/2009	M21	19884 PPM					
				12/30/2009	M21	14230 PPM		12/30/2009	VLV-TPL	18962.00	
				12/30/2009	M21	18962 PPM					
				01/26/2010	M21	11520 PPM		01/26/2010	VLV-TIG	8963.00	
				01/26/2010	M21	8963 PPM					
				02/02/2010	M21	51 PPM					
				03/10/2010	M21	19.46 PPM		04/14/2010	VLV-TPL	4360.00	
									G		

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				04/14/2010	M21	4360 PPM					
				05/12/2010	M21	8505 PPM					
				06/29/2010	M21	1.75 PPM		07/30/2010	VLV-TPL G	3443.00	
				07/30/2010	M21	3443 PPM		07/30/2010	VLV-TPL G	2148.00	
				07/30/2010	M21	2148 PPM		08/17/2010	VLV-TPL G	27300.00	
				08/17/2010	M21	27300 PPM		08/17/2010	VLV-TPL G	15800.00	
				08/17/2010	M21	15800 PPM		09/24/2010	VLV-TP	897.00	
				09/24/2010	M21	897 PPM					
				09/24/2010	M21	187 PPM					
				10/09/2010	M21	58.74 PPM		11/23/2010	VLV-TP	2.00	
				11/23/2010	M21	2 PPM					
24343	VALVE/ GATE	0.50	EL 7 FT 1 FT E OF 12P137 - S PRESS TAP REPLACEMENT IN KIND WITH TAG 33422	*** Placed on Delay for Turnaround on 08/31/2007 Removed From Turnaround List on 11/23/2010							
				08/18/2007	M21	36300 PPM	VLV-PLUG				
				08/18/2007	M21	36300 PPM		08/18/2007	VLV-TPL G	36300.00	
				08/18/2007	M21	36300 PPM					
				09/27/2007	M21	156200 PPM					
				10/31/2007	M21	42000 PPM					
				11/05/2007	M21	89300 PPM		11/05/2007	VLV-TPL G	357400.00	
				11/05/2007	M21	357400 PPM					
				12/28/2007	M21	33900 PPM		12/28/2007	VLV-TPL G	13900.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				12/28/2007	M21	13900 PPM		01/31/2008	VLV-TFIT T	24000.00	
				01/31/2008	M21	24000 PPM					
				02/07/2008	M21	30500 PPM		02/07/2008	VLV-TFIT T	58600.00	
				02/07/2008	M21	58600 PPM		03/31/2008	VLV-WO W	588600.00	
				03/31/2008	M21	588600 PPM					
				04/28/2008	M21	20500 PPM		04/28/2008	VLV-TPL G	14800.00	
				04/28/2008	M21	14800 PPM					
				05/29/2008	M21	133 PPM					
				06/26/2008	M21	12600 PPM		06/26/2008	VLV-TPL G	22000.00	
				06/26/2008	M21	22000 PPM					
				07/10/2008	M21	3 PPM					
				08/13/2008	M21	115 PPM					
				09/11/2008	M21	7 PPM					
				10/21/2008	M21	59500 PPM		10/21/2008	VLV-TPL G	84800.00	
				10/21/2008	M21	84800 PPM					
				11/24/2008	M21	149200 PPM		11/24/2008	VLV-TPL G	147000.00	
				11/24/2008	M21	147000 PPM					
				12/17/2008	M21	10 PPM					
				01/27/2009	M21	35 PPM					
				02/05/2009	M21	855000 PPM		02/05/2009	VLV-TPL G	851999.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				02/05/2009	M21	851999 PPM					
				03/20/2009	M21	544 PPM		03/20/2009	VLV-TGA UGE	753600.00	
				03/20/2009	M21	753600 PPM					
				04/30/2009	M21	24 PPM					
				05/04/2009	M21	302186 PPM		05/04/2009	VLV-TPL G	168236.00	
				05/04/2009	M21	168236 PPM					
				06/22/2009	M21	15 PPM					
				07/31/2009	M21	15 PPM					
				08/05/2009	M21	26300 PPM		08/05/2009	VLV-TPL G	8848.00	
				08/05/2009	M21	8848 PPM					
				09/23/2009	M21	33900 PPM		09/23/2009	VLV-TPL G	2363.00	
				09/23/2009	M21	2363 PPM					
				10/28/2009	M21	948 PPM		10/28/2009	VLV-TPL G	1647.00	
				10/28/2009	M21	1647 PPM					
				11/17/2009	M21	66000 PPM		11/17/2009	VLV-TGA UGE	44569.00	
				11/17/2009	M21	44569 PPM					
				12/30/2009	M21	8200 PPM		12/30/2009	VLV-TPL	6415.00	
				12/30/2009	M21	6415 PPM					
				01/26/2010	M21	7233 PPM		01/26/2010	VLV-TPL	5122.00	
				01/26/2010	M21	5122 PPM					
				02/02/2010	M21	17 PPM					

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				03/10/2010	M21	18.99 PPM		04/14/2010	VLV-TPL G	20000.00	
				04/14/2010	M21	20000 PPM					
				05/12/2010	M21	1317 PPM					
				06/29/2010	M21	185 PPM					
				07/28/2010	M21	73100 PPM		08/17/2010	VLV-TPL G	4321.00	
				08/17/2010	M21	4321 PPM		09/24/2010	VLV-TFIT T	3601.00	
				09/24/2010	M21	3601 PPM					
				09/24/2010	M21	2843 PPM					
				10/09/2010	M21	51.32 PPM		11/23/2010	VLV-RV	2.00	
				11/23/2010	M21	2 PPM					
3-00299	PUMP	0.00	12P195A at 12V44								
				07/20/2012	M21	21800 PPM	PMP-SEAL	07/20/2012	PMP-WS E	14300.00	
				07/20/2012	M21	14300 PPM		07/23/2012	PMP-SSE	484.00	
				07/23/2012	M21	484 PPM		07/24/2012	PMP-WS E	0.00	
				07/24/2012	VIS	F					
				08/01/2012	VIS	P		08/03/2012	PMP-ST M	3072.00	
				08/03/2012	M21	3072 PPM					
				08/03/2012	M21	4509 PPM					08/03/2012
3-00299	PUMP	0.00	12P195A at 12V44								
				08/08/2012	VIS	F	PMP-SEAL	08/14/2012	PMP-WS E	0.00	
				08/14/2012	VIS	F		08/16/2012	PMP-ST M	0.00	
				08/16/2012	VIS	P					

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
3-01361	VALVE	0.75	G 1/10 @ 12E2A S/S 1St Lvl	08/16/2012	M21	72 PPM					08/16/2012
				08/03/2012	M21	316200 PPM	VLV-PLUG	08/03/2012	VLV-CL	293100.00	
				08/03/2012	M21	293100 PPM					
				08/03/2012	M21	111 PPM					08/03/2012
3-01811	VALVE	2.00	12V35 TOP	08/02/2012	M21	20600 PPM	VLV-PKG	08/02/2012	ATTB	15300.00	
				08/02/2012	M21	15300 PPM		08/06/2012	VLV-TP	27.00	
				08/06/2012	M21	27 PPM					08/06/2012
3-01822	VALVE/ GATE	3.00	1/1 21V3 REPLACEMENT IN KIND WITH TAG 33424	*** Placed on Delay for Turnaround on 09/05/2007 Removed From Turnaround List on 11/23/2010							
				08/21/2007	M21	184900 PPM	VLV-PKG	08/21/2007	VLV-TP	184900.00	
				08/21/2007	M21	184900 PPM					
				08/21/2007	M21	38000 PPM		08/28/2007	VLV-INJ	39000.00	
				08/28/2007	M21	39000 PPM		08/28/2007	VLV-INJ	38000.00	
				08/28/2007	M21	38000 PPM					
				09/12/2007	M21	38000 PPM					
				10/31/2007	M21	1938 PPM					
				11/06/2007	M21	601 PPM		11/06/2007	VLV-TIG	1334.00	
				11/06/2007	M21	1334 PPM					
				11/29/2007	VIS	F					
				11/29/2007	M21	9520 PPM					
				12/07/2007	VIS	P					
				12/28/2007	M21	155 PPM					
				02/07/2008	M21	606 PPM		02/07/2008	VLV-TIG	789.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				02/07/2008	M21	789 PPM					
				05/23/2008	M21	898 PPM		05/23/2008	VLV-TGA UGE	1833.00	
				05/23/2008	M21	1833 PPM					
				08/13/2008	M21	1435 PPM		08/13/2008	VLV-TGA UGE	404.00	
				08/13/2008	M21	404 PPM					
				09/11/2008	M21	30 PPM					
				10/21/2008	M21	1211 PPM		10/21/2008	VLV-TGA UGE	1072.00	
				10/21/2008	M21	1072 PPM					
				11/11/2008	M21	18 PPM					
				12/17/2008	M21	8 PPM					
				01/27/2009	M21	29 PPM					
				02/17/2009	M21	850 PPM		02/17/2009	VLV-TGA UGE	1110.00	
				02/17/2009	M21	1110 PPM					
				03/20/2009	M21	2019 PPM		03/20/2009	VLV-TGA UGE	1513.00	
				03/20/2009	M21	1513 PPM					
				04/30/2009	M21	23 PPM					
				05/06/2009	M21	2605 PPM		05/06/2009	VLV-TGA UGE	3027.00	
				05/06/2009	M21	3027 PPM					
				06/22/2009	M21	15 PPM					
				07/31/2009	M21	897 PPM		07/31/2009	VLV-TGA UGE	923.00	
				07/31/2009	M21	923 PPM					
				08/06/2009	M21	1438 PPM		08/06/2009	VLV-TGA UGE	2226.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				08/06/2009	M21	2226 PPM					
				09/23/2009	M21	1469 PPM		09/23/2009	VLV-TGA UGE	705.00	
				09/23/2009	M21	705 PPM					
				10/28/2009	M21	6 PPM					
				11/17/2009	M21	657 PPM		11/17/2009	VLV-TGA UGE	772.00	
				11/17/2009	M21	772 PPM					
				12/30/2009	M21	909 PPM		12/30/2009	VLV-TIG	652.00	
				12/30/2009	M21	652 PPM					
				01/26/2010	M21	547 PPM		01/26/2010	VLV-TIG	544.00	
				01/26/2010	M21	544 PPM					
				02/10/2010	M21	128 PPM					
				03/10/2010	M21	27.39 PPM		04/14/2010	VLV-TP	2200.00	
				04/14/2010	M21	2200 PPM					
				05/10/2010	M21	653 PPM					
				06/29/2010	M21	187 PPM		07/30/2010	VLV-TP	571.00	
				07/30/2010	M21	571 PPM		07/30/2010	VLV-TP	625.00	
				07/30/2010	M21	625 PPM		08/17/2010	VLV-TP	518.00	
				08/17/2010	M21	518 PPM		08/17/2010	VLV-TP	450.00	
				08/17/2010	M21	450 PPM					
				09/24/2010	M21	1.8 PPM		10/07/2010	VLV-TP	591.00	
				10/07/2010	M21	591 PPM					
				10/07/2010	M21	543 PPM		11/23/2010	VLV-RV	2.00	
				11/23/2010	M21	2 PPM					
33537	VALVE/ CTRL	4.00	CTRL LP E OF 12C8 PLTFM 12UC0418	*** Placed on Delay for Turnaround on 11/22/2011							
				01/20/2012	M21	82400 PPM	VLV-PKG	01/20/2012	VLV-CP	50100.00	
				01/20/2012	M21	50100 PPM		02/03/2012	VLV-CL	13600.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				02/03/2012	M21	13600 PPM					
				02/03/2012	M21	10500 PPM					
				03/21/2012	M21	87.13 PPM		04/18/2012	VLV-CL	3949.00	
				04/18/2012	M21	3949 PPM					
				04/18/2012	M21	653 PPM					
				05/22/2012	M21	214 PPM					
				06/25/2012	M21	121 PPM					
				07/20/2012	M21	10.56 PPM					
				08/02/2012	M21	16.64 PPM					

Process Unit 12-21 Summary

	Component Count	Leak Count
Total in Group	7	8
Total Valves	6	6
Total Pumps	1	2
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
15658	VALVE/ NEEDLE	0.75	4FT NORTHSIDE OF 21V3 INSIDE C3C4 SPLITTER SAMPLESTATION								
				08/14/2012	M21	15100 PPM	VLV-PKG	08/14/2012	VLV-CL	6408.00	
				08/14/2012	M21	6408 PPM					08/14/2012

Process Unit 21 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 13

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
32952	VALVE/ CHAIN	3.00	13V2 E SIDE 15' OVHD	08/21/2012	M21	39300 PPM	VLV-PKG	08/21/2012	VLV-CL	42000.00	
				08/21/2012	M21	42000 PPM		08/30/2012	VLV-TP	7.00	
				08/30/2012	M21	7 PPM					08/30/2012
33778	VALVE/ GATE	0.75	PIPING BTW 13P270 AND 13P266	08/01/2012	M21	22200 PPM	VLV-SCR	08/01/2012	VLV-CL	26400.00	
				08/01/2012	M21	26400 PPM		08/15/2012	VLV-TP	32.00	
				08/15/2012	M21	32 PPM					08/15/2012

Process Unit 13 Summary

	Component Count	Leak Count
Total in Group	2	2
Total Valves	2	2
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 14

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
17025	VALVE	0.75	1ST LEVEL PLAT W OF 14V6@ W SDE 14V7	07/18/2012	M21	25200 PPM	VLV-CONN EC	07/19/2012	VLV-TCO N	10000.00	
				07/19/2012	M21	10000 PPM		07/23/2012	VLV-TP	79.00	
				07/23/2012	M21	79 PPM					07/23/2012
23302	VALVE	0.75	L3 PLAT ABOVE COMP DECK	07/13/2012	M21	111900 PPM	VLV-PLUG	07/13/2012	VLV-TPL G	76000.00	
				07/13/2012	M21	76000 PPM		07/16/2012	VLV-TPL G	3.00	
				07/16/2012	M21	3 PPM					07/16/2012
23481	PUMP	0.00	14P8A	08/22/2012	VIS	F	PMP-SCR	08/22/2012	PMP-TFI	0.00	
				08/30/2012	VIS	P		08/30/2012	PMP-SEJ	5.00	
				08/30/2012	M21	5 PPM					08/30/2012
23507	PUMP	0.00	14P8B	06/14/2012	VIS	F		06/15/2012	PMP-WS E	0.00	
				06/15/2012	VIS	P					
				06/15/2012	M21	49 PPM					
				06/20/2012	VIS	P					
				06/25/2012	VIS	P					
				06/25/2012	M21	6.51 PPM					
				07/05/2012	VIS	P					07/05/2012
23507	PUMP	0.00	14P8B	08/22/2012	VIS	F	PMP-SCR	08/22/2012	PMP-TFI	0.00	
				08/30/2012	VIS	P		08/31/2012	PMP-SEJ	0.00	
				08/31/2012	VIS	P					
				08/31/2012	M21	5 PPM					08/31/2012

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 14

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
28063	VALVE/ GATE	0.75	PRIMARY LIFT GAS 2ND LVL CCR	07/17/2012	M21	10000 PPM	VLV-PLUG	07/18/2012	VLV-TPL G	23.00	
				07/18/2012	M21	23 PPM					07/18/2012
30641	VALVE/ GATE	2.00	WATER BOOT 5FT W OF 14V6 10 FT HI	07/18/2012	M21	38500 PPM	VLV-PKG	07/19/2012	VLV-TP	270.00	
				07/19/2012	M21	270 PPM					07/19/2012
4-00862	VALVE	0.75	E SDE 14V6 @ SG UP LADDER	07/18/2012	M21	23900 PPM	VLV-TUB	07/19/2012	VLV-TCO N	10000.00	
				07/19/2012	M21	10000 PPM		07/23/2012	VLV-TP	45.00	
				07/23/2012	M21	45 PPM					07/23/2012
4-00886	VALVE	1.00	TOP LVL 14V6	07/18/2012	M21	10700 PPM	VLV-PKG	07/19/2012	VLV-CP	137.00	
				07/19/2012	M21	137 PPM					07/19/2012
40788	VALVE/ NEEDLE	0.50	14P9B DISCH LINE	07/17/2012	M21	27900 PPM	VLV-SCR	07/18/2012	VLV-CL	40.00	
				07/18/2012	M21	40 PPM					
				07/18/2012	VIS	P					07/18/2012

Process Unit 14 Summary

	Component Count	Leak Count
Total in Group	9	10
Total Valves	7	7
Total Pumps	2	3
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 16

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
0773	VALVE/ BLEEDER	0.75	PLTFRM UNDERNEATH FINFAN AT PSV LP	08/03/2012	M21	17600 PPM	VLV-PLUG	08/03/2012	VLV-TPL G	50100.00	
				08/03/2012	M21	50100 PPM		08/07/2012	VLV-TP	60.00	
				08/07/2012	M21	60 PPM					08/07/2012
0783A	VALVE/ GATE	3.00	CONTROL LOOP 16PDC437 25' SOUTH EAST OF 16V9 EAST SIDE OF FINFAN LEVEL 1	08/03/2012	M21	747 PPM	VLV-PKG	08/03/2012	VLV-TP	685.00	
				08/03/2012	M21	685 PPM		08/07/2012	VLV-TP	90.00	
				08/07/2012	M21	90 PPM					08/07/2012
6530	VALVE/ CTRL	4.00	CV 16FC0610 EAST OF 16H3	07/20/2012	M21	1257 PPM	VLV-PKG	07/20/2012	VLV-CP	815.00	
				07/20/2012	M21	815 PPM		07/23/2012	VLV-CL	161.00	
				07/23/2012	M21	161 PPM					07/23/2012
6530	VALVE/ CTRL	4.00	CV 16FC0610 EAST OF 16H3	08/03/2012	M21	532 PPM	VLV-PKG	08/03/2012	VLV-CL	963.00	
				08/03/2012	M21	963 PPM		08/07/2012	VLV-CL	230.00	
				08/07/2012	M21	230 PPM					08/07/2012
6532 DUPLICATE	VALVE/ GATE	6.00	CNTLP E OF REB HTR PASS#1 E BLK	08/08/2012	M21	503 PPM	VLV-PKG	08/08/2012	VLV-CL	1632.00	
				08/08/2012	M21	1632 PPM		08/20/2012	VLV-TP	102.00	
				08/20/2012	M21	102 PPM					08/20/2012
6545	VALVE/ CTRL	4.00	CL 16FC0611 EAST OF 16H3	07/20/2012	M21	775 PPM	VLV-PKG	07/20/2012	VLV-CL	761.00	
				07/20/2012	M21	761 PPM		07/23/2012	VLV-CL	161.00	
				07/23/2012	M21	161 PPM					07/23/2012
6545	VALVE/ CTRL	4.00	CL 16FC0611 EAST OF 16H3	08/03/2012	M21	562 PPM	VLV-PKG	08/03/2012	VLV-CL	621.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 16

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				08/03/2012	M21	621 PPM		08/07/2012	VLV-CP	92.00	
				08/07/2012	M21	92 PPM					08/07/2012
6550	VALVE/ CTRL	4.00	CV 16FC0612 EAST OF 16H3								
				08/03/2012	M21	894 PPM	VLV-PKG	08/03/2012	VLV-CL	762.00	
				08/03/2012	M21	762 PPM		08/07/2012	VLV-CP	158.00	
				08/07/2012	M21	158 PPM					08/07/2012
6608	VALVE/ CTRL	4.00	CV 16FC0613 EAST OF 16H3								
				08/03/2012	M21	736 PPM	VLV-PKG	08/03/2012	VLV-CL	688.00	
				08/03/2012	M21	688 PPM		08/07/2012	VLV-CP	220.00	
				08/07/2012	M21	220 PPM					08/07/2012
6823	VALVE/ CHAIN	1.00	PROD COOLER 16E2A/C W SIDE OVHD CHAIN VALVE								
				08/31/2012	M21	2074 PPM		08/31/2012	VLV-TP	103.00	
				08/31/2012	M21	103 PPM					08/31/2012
6823A	VALVE/ CHAIN	1.00	16E2A OVHD NW END								
				08/31/2012	M21	2074 PPM		08/31/2012	VLV-TP	75.00	
				08/31/2012	M21	75 PPM					08/31/2012
6925	VALVE/ BLEEDER	0.75	16V2 PROD SEP H2O BOOT SG BLDR								
				07/23/2012	M21	758 PPM	VLV-PKG	07/23/2012	ATTB	704.00	
				07/23/2012	M21	704 PPM					
				08/07/2012	M21	48.55 PPM					08/07/2012
7014	VALVE/ CTRL	8.00	CONTROL LOOP 16FC0746 EAST SIDE OF 16E9								
				07/20/2012	M21	766 PPM	VLV-PKG	07/23/2012	VLV-CL	54.00	
				07/23/2012	M21	54 PPM					07/23/2012
7014	VALVE/ CTRL	8.00	CONTROL LOOP 16FC0746 EAST SIDE OF 16E9								
				08/07/2012	M21	1094 PPM	VLV-PKG	08/07/2012	VLV-CP	987.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 16

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
7053	PUMP	0.00	PUMP 16P271 20' SOUTH OF 16V3	08/07/2012	M21	987 PPM		08/08/2012	VLV-CP	19.00	
				08/08/2012	M21	19 PPM					08/08/2012
				08/03/2012	M21	2012 PPM	PMP-SEAL	08/03/2012	PMP-WS E	103.00	
				08/03/2012	M21	103 PPM					
				08/07/2012	VIS	P					
7230	PUMP	0.00	PUMP 16P299A NHT REFLUX SE 16V4	08/07/2012	M21	54.47 PPM					08/07/2012
				06/25/2012	VIS	F	PMP-TUB	06/25/2012	PMP-WS E	7016.00	
				06/25/2012	M21	7016 PPM					
				06/25/2012	M21	14700 PPM		06/26/2012	PMP-WS E	240.00	
				06/26/2012	M21	240 PPM					
7384	VALVE/ 3 WAY	0.50	EAST SIDE OF 16V4 DP CELL ON PLATFORM. 16FT0681	07/05/2012	VIS	P					07/05/2012
				08/07/2012	M21	720 PPM	VLV-PKG	08/07/2012	VLV-CL	851.00	
				08/07/2012	M21	851 PPM		08/08/2012	VLV-CP	86.00	
				08/08/2012	M21	86 PPM					08/08/2012
7581	VALVE/ GATE	2.00	50' SOUTH OF 11H1 TOP OF 27V21	08/08/2012	M21	709 PPM	VLV-PKG	08/08/2012	VLV-CL	527.00	
				08/08/2012	M21	527 PPM		08/10/2012	VLV-CP	57.00	
				08/10/2012	M21	57 PPM					08/10/2012
7682	VALVE/ BLEEDER	0.50	20FT NE OF CP FLARE.	08/08/2012	M21	641 PPM	VLV-PKG	08/08/2012	VLV-CL	532.00	
				08/08/2012	M21	532 PPM		08/10/2012	VLV-TP	43.00	

Process Unit : 16

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				08/10/2012	M21	43 PPM					08/10/2012

Process Unit 16 Summary

	Component Count	Leak Count
Total in Group	16	19
Total Valves	14	17
Total Pumps	2	2
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 07/31/2012

Process Unit : 19

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
0035.01	CONNECTOR/ PLUG	0.75	19V9 FD SURGE DRM BTM E SDE 19PY0101A								
				07/05/2012	M21	591 PPM	CON-PLG	07/05/2012	CON-TPL G	635.00	
				07/05/2012	M21	635 PPM		07/06/2012	CON-TPL G	8.00	
				07/06/2012	M21	8 PPM					07/06/2012
0197	CONNECTOR/ UNION	2.00	19H2 btm burner 2								
				07/05/2012	M21	544 PPM	CON-UNIO N	07/05/2012	CON-CLA	581.00	
				07/05/2012	M21	581 PPM		07/06/2012	CON-CLA	171.00	
				07/06/2012	M21	171 PPM					07/06/2012
0260.01	CONNECTOR/ FLANGE	4.00	19E104 N TUBE siDE CNLP								
				07/23/2012	M21	904 PPM	CON-FLG	07/23/2012	CON-CLA	845.00	
				07/23/2012	M21	845 PPM		07/24/2012	CON-TF	24.00	
				07/24/2012	M21	24 PPM		07/24/2012	CON-TFL G		07/24/2012

Process Unit 19 Summary

	Component Count	Leak Count
Total in Group	3	3
Total Valves	0	0
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	3	3
Total Agitators	0	0
Total Other Equipment	0	0



MARATHON - DETROIT
1300 SOUTH FORT STREET
DETROIT, MI 48217

10/02/2012

LEAKING EQUIPMENT LOG

Program: NSPS-VV

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 01

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2075	VALVE/ GATE	4.00	CORNER OF ROADWAY NORTH WEST OF TK30 UNDER PIPE BRIDGE CP HIGH PRESSURE LINE								
				08/20/2012	M21	42000 PPM	VLV-PKG	08/20/2012	VLV-CL	19510.00	
				08/20/2012	M21	19510 PPM		08/21/2012	VLV-TP	37.00	
				08/21/2012	M21	37 PPM					08/21/2012

Process Unit 01 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 02

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2366	VALVE/ BALL	3.00	15FT SW OF TK98 @UG-5-009 DOT LINE	*** Placed on Delay for Turnaround on 05/02/2012							
				05/16/2012	VIS	F	VLV-PKG	05/16/2012	VLV-CL	18500.00	
				05/16/2012	M21	18500 PPM					
				05/16/2012	M21	38100 PPM		06/11/2012	VLV-CL	17400.00	
				06/11/2012	M21	17400 PPM					
				06/11/2012	M21	6420 PPM		07/24/2012	VLV-CL	984.00	
				07/24/2012	M21	984 PPM		08/06/2012	VLV-CL	0.00	
				08/06/2012	VIS	P					
				08/06/2012	M21	1509 PPM					
2725	VALVE/ ORBIT	2.00	TOP OF TK190. N SIDE OF CATWALK. W VLV.								
				08/01/2012	M21	31800 PPM	VLV-CAP	08/01/2012	VLV-CL	8903.00	
				08/01/2012	M21	8903 PPM		08/01/2012	VLV-TP	2.00	
				08/01/2012	M21	2 PPM					08/01/2012
3108	VALVE/ CHECK	3.00	BTM SSD OF TK 92 7FT E OF TK 91								
				08/02/2012	M21	12600 PPM	VLV-PKG	08/02/2012	VLV-CL	4026.00	
				08/02/2012	M21	4026 PPM		08/02/2012	VLV-TP	78.00	
				08/02/2012	M21	78 PPM					08/02/2012
3122	VALVE/ CHECK	3.00	BTM SSD OF TK 93 7FT E OF TK 92								
				08/02/2012	M21	18700 PPM	VLV-PKG	08/15/2012	VLV-TP	71.00	
				08/15/2012	M21	71 PPM					08/15/2012
3797	RELIEF/ PR-CVS	0.75	IN PIPERACK 17FT SW OF 22P88 ON HP OUTSIDE SLOP LINE.(CLAMPED)								
				08/06/2012	M21	48300 PPM	GSKT	08/06/2012	REL-WG ASK	71500.00	
				08/06/2012	M21	71500 PPM		08/06/2012	PRV-SSE	2.00	
				08/20/2012	M21	2 PPM		08/20/2012	STM & CLN		08/20/2012
3958	PUMP	0.00	22P87 12' W OF TK80								
				07/09/2012	VIS	F	PMP-PLG	07/09/2012	PMP-TPL	0.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 02

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
3997	PUMP	0.00	PUMP 22P85 12' W OF TK80	07/18/2012	VIS	P					
				07/23/2012	VIS	P					
				07/23/2012	M21	6.69 PPM					
				07/23/2012	VIS	P					07/23/2012
				06/18/2012	M21	106700 PPM	PMP-SEAL	06/18/2012	PMP-WS E	13500.00	
				06/18/2012	M21	13500 PPM		06/19/2012	PMP-WS E	17000.00	
				06/19/2012	M21	17000 PPM		06/27/2012	PMP-WS E	0.00	
				06/27/2012	VIS	F		07/02/2012	PMP-SEJ	0.00	
4446	VALVE/ ORBIT	3.00	RK 1 WEST ISLAND BLK	07/02/2012	VIS	P					
				07/02/2012	M21	42 PPM					07/02/2012
				08/06/2012	M21	62800 PPM	VLV-PKG	08/06/2012	VLV-CL	1046.00	
				08/06/2012	M21	1046 PPM					08/06/2012

Process Unit 02 Summary

	Component Count	Leak Count
Total in Group	8	8
Total Valves	5	5
Total Pumps	2	2
Total Compressors	0	0
Total Relief Valves	1	1
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 08/31/2012

Process Unit : 34

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
5255A	RELIEF/ PR	1.00	EAST SIDE OF TK109 ON SUCTION LINE 4' EAST OF CATWALK ON ORBIT VLV 5252	07/12/2012	M21	18200 PPM	VLV-CAP	07/13/2012	STM & CLN	3500.00	
				07/13/2012	M21	3500 PPM					07/13/2012
6071A	RELIEF/ PR	1.00	SOUTH EAST OF TK55 EAST OF PUMP 22P271 ON DISCHARGE LINE	07/13/2012	M21	706 PPM	VLV-SEL	07/13/2012	VLV-CL	689.00	
				07/13/2012	M21	689 PPM		07/16/2012	PRV-SSE	82.00	
				07/16/2012	M21	82 PPM					07/16/2012

Process Unit 34 Summary

	Component Count	Leak Count
Total in Group	2	2
Total Valves	0	0
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	2	2
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Table 3
Regulatory Leakers Requiring Delay of Repair - Third Quarter 2012
Michigan Refining Division

Complex	Unit	VOC Tag I.D.	Comp type	Date leak first detected	Component Description	Reason for delay of repair	Date Placed on delay of repair	Date of Actual/Anticipated Repair
2	8	8777	PSV	2/16/2012	8PSV6810	Requires unit shutdown	2/22/2012	10/31/2012
2	9	9C1	Compressor	11/12/2009	09C1 Seal leaking on East Side of housing	Requires unit shutdown	11/23/2009	10/31/2012
2	9	15601	Sightglass	12/15/2011	PLTFRM E 9V18	Requires unit shutdown	1/6/2012	10/31/2012
4	16	25599	Valve	11/20/2009	Bonnet of gate valve leaking control loop SE of 16V9	Isolated From VOC Service	12/18/2009	10/31/2012
3	12	33537	Valve	11/10/2011	Cntrl Loop East of 12C8 Platform 12UC0418	Requires unit shutdown	11/23/2011	10/31/2012
3	12	14512	Sightglass	2/2/2012	Sight Glass 3rd levl 12V41	Requires unit shutdown	2/16/2012	10/31/2012
5	2	2366	Valve	4/18/2012	15FT SW OF TK 98 @UG-5-009 BY DOT LINE	Requires unit shutdown	5/2/2012	10/31/2012

Table 4
Wastewater System Monitoring - Third Quarter 2012
Michigan Refining Division

Complex	Unit	Tag ID	Date	Service/Description	First Attempt	Recommended Fix	Final repair	Final Repair Date
1	29	N/A	11/2/2010	Interceptor Sump Caulking	Caulk Lid	Caulk Lid	Lid Caulked	11/3/2010
4	14	701	3/11/2011	Drain 5 feet SW of 14P18A	Install Plug	Install Plug	Plug Installed	3/18/2011
1	5	728	9/29/2011	Manhole 50 Feet Southwest of 4E37 in Roadway	Tighten Cover	Tighten Cover	Cover Tightened	10/6/2011
4	14	775	9/29/2011	Manhole West of 14E22B	Tighten Cover	Tighten Cover	Cover Tightened	10/10/2011
1	29	721	9/29/2011	Manhole N of Tk 33	Tighten Cover	Tighten Cover	Cover Tightened	10/6/2011
1	29	723	9/29/2011	Manhle N of Tk 33	Tighten Cover	Tighten Cover	Cover Tightened	10/6/2011
1	4	720	9/30/2011	Drain N of 4C4B S of Preflash Emerg Shower	Install Plug	Install Plug	Plug Installed	10/11/2011
1	5	057	9/30/2011	Drain Southeast of 5P5A	Add Water	Add Water	Water Added	10/12/2011
1	5	082	5/14/2012	W. of 5P59A	Add Water	Add Water	Water Added	8/13/2012
1	4	696	6/11/2012	S. of 4P4A	Install Plug	Install Plug	Plug Installed	8/6/2012
3	12-21	337	6/13/2012	WS Catch Basin E of 12V26	Add Water	Add Water	Water Added	7/5/2012
2	9	1005	6/19/2012	20' South of 43V109 Across Roadway	Add Water	Add Water	Water Added	7/19/2012
4	19	261	6/20/2012	Drain at KHT Reflux Pump (19P3A) Water Sealed	Add Water	Add Water	Water Added	7/24/2012
1	5	090	6/27/2012	3 Ft. S.W. 5E36A	Install Plug	Install Plug	Plug Installed	7/3/2012
2	7	311	6/27/2012	Catch Basin in Roadway N of 7P105A	Add Water	Add Water	Water Added	7/10/2012
4	14	203	6/27/2012	Drain on NW Side of 14V40	Add Water	Add Water	Water Added	7/5/2012
4	19	440	6/27/2012	Catch Basin SW of Water Inj Drum 19V102-Water Seal to MH	Add Water	Add Water	Water Added	7/5/2012
5	34	1234	7/2/2012	Manway West of TK107 (MH #5)	Secure Lid	Secure Lid	Lid Secured	7/16/2012
3	12-21	871	7/5/2012	Drain 3Ft. North of 12P146B	Add Water	Add Water	Water Added	7/12/2012
3	12-21	878	7/5/2012	Drain 3Ft. W of 12P144	Add Water	Add Water	Water Added	7/11/2012
1	4	007	7/9/2012	10 Ft. E. of 4P35	Add Water	Add Water	Water Added	7/23/2012
1	4	012	7/9/2012	1 Ft. E. of 4P63B	Add Water	Add Water	Water Added	7/30/2012
1	4	681	7/9/2012	6 Ft. S.E. 4P4A	Install Plug	Install Plug	Plug Installed	7/16/2012
1	5	1061	7/9/2012	6 Ft. S. 29T12	Add Water	Add Water	Water Added	7/30/2012
4	14	672	7/10/2012	Drain Near West End of SR BFW Elec (14P1B) H2O Seal	Add Water	Add Water	Water Added	7/17/2012
2	9	1019	7/11/2012	H2O Seal S of 9P9B	Add Water	Add Water	Water Added	7/19/2012
2	9	1025	7/11/2012	H2O Seal N of 9P1A	Add Water	Add Water	Water Added	7/19/2012
3	11	325	7/17/2012	Drain on E Side of FCCU CEMS BLDG	Install Plug	Install Plug	Plug Installed	7/24/2012
4	14	203	7/17/2012	Drain on NW Side of 14V40	Add Water	Add Water	Water Added	7/24/2012
4	14	241	7/17/2012	Catch Basin in Bundle Cleaning Pad (East Side)	Add Water	Add Water	Water Added	7/24/2012
4	14	424	7/17/2012	Drain at SR Fuel Drum (14V10) Water Seal	Add Water	Add Water	Water Added	7/24/2012

Table 4
Wastewater System Monitoring - Third Quarter 2012
Michigan Refining Division

Complex	Unit	Tag ID	Date	Service/Description	First Attempt	Recommended Fix	Final repair	Final Repair Date
6	70	1399	7/17/2012	N Side of Blue BLDG	Secure Lid	Secure Lid	Lid Secured	9/10/2012
6	70	1491	7/17/2012	N Side of 70P4B in Walkway	Secure Lid	Secure Lid	Lid Secured	9/10/2012
6	70	1519	7/17/2012	50Ft. S Side of Heater 2C	Secure Lid	Secure Lid	Lid Secured	7/30/2012
6	70	1524	7/17/2012	40Ft. N Side of 70E19	Secure Lid	Secure Lid	Lid Secured	9/10/2012
6	70	1564	7/17/2012	10Ft. SE Side of 70P24	Secure Lid	Secure Lid	Lid Secured	9/10/2012
6	70	2177	7/17/2012	20Ft. NE Side of 70P22A	Secure Lid	Secure Lid	Lid Secured	7/30/2012
3	12-21	337	7/18/2012	WS Catch Basin E of 12V26	Add Water	Add Water	Water Added	8/1/2012
6	70	1297	7/18/2012	25Ft. NW of 76P251B in Roadway	Secure Lid	Secure Lid	Lid Secured	7/25/2012
6	70	1822	7/18/2012	JB 30Ft. N Side of 70T1	Secure Lid	Secure Lid	Lid Secured	7/30/2012
6	70	1832	7/18/2012	30 Ft. NW Side of 70T1	Secure Lid	Secure Lid	Lid Secured	7/25/2012
6	70	1833	7/18/2012	30 Ft. NW Side of 70T1	Secure Lid	Secure Lid	Lid Secured	7/25/2012
6	70	1893	7/18/2012	JB 50Ft. W Side of 76T601	Secure Lid	Secure Lid	Lid Secured	7/25/2012
6	70	1905	7/18/2012	JB 50Ft. SE Side of 70V23 in roadway	Secure Lid	Secure Lid	Lid Secured	7/25/2012
6	70	1915	7/18/2012	JB 75Ft. SW Side of 70V16 in roadway	Secure Lid	Secure Lid	Lid Secured	7/30/2012
6	70	1996	7/18/2012	NW Side of 70P5B	Secure Lid	Secure Lid	Lid Secured	7/30/2012
6	70	2009	7/18/2012	JB 12' S of flag pole W of complex 6 office	Secure Lid	Secure Lid	Lid Secured	7/25/2012
6	70	1968	7/19/2012	JB 100' SE of 76V115 in roadway	Secure Lid	Secure Lid	Lid Secured	7/30/2012
6	70	1972	7/19/2012	JB 100' NE of 76V801 Flare KO Drum in roadway	Secure Lid	Secure Lid	Lid Secured	7/30/2012
6	70	1979	7/19/2012	JB 12' N of 76V801 Flare KO Drum	Secure Lid	Secure Lid	Lid Secured	7/30/2012
6	70	2048	7/19/2012	JB SE corner of maintenance shop	Secure Lid	Secure Lid	Lid Secured	7/26/2012
6	70	2054	7/19/2012	JB 25' E of 76P603A 20' N of 70T1	Secure Lid	Secure Lid	Lid Secured	7/30/2012
6	70	1882	7/20/2012	JB 25Ft. NE Side of 70E5	Secure Lid	Secure Lid	Lid Secured	7/26/2012
6	72	1704	7/20/2012	H2O Seal 8Ft. N Side of 72V3	Add Water	Add Water	Water Added	10/10/2012
6	72	1706	7/20/2012	JB 25Ft. NW Side of 72V3 in walkway	Secure Lid	Secure Lid	Lid Secured	7/25/2012
6	72	1709	7/20/2012	H2O Seal S Side of 72V3	Add Water	Add Water	Water Added	9/19/2012
6	72	1933	7/20/2012	JB 20Ft. SE Side of 72T1	Secure Lid	Secure Lid	Lid Secured	7/30/2012
5	1	2194	7/23/2012	W of carbon can station #11 in the API	Caulk Lid	Caulk Lid	Lid Caulked	7/23/2012
2	8	1244	7/24/2012	100 Ft. E of GOHT under Fin Fans NNE of CPX2 Office	Add Water	Add Water	Water Added	7/31/2012
6	70	1290	7/24/2012	CB 50Ft. Of Security Shack	Add Water	Add Water	Water Added	8/6/2012
2	9	1005	7/25/2012	20' South of 43V109 Across Roadway	Add Water	Add Water	Water Added	10/2/2012
3	13	1037	7/25/2012	Junction Box 10 Ft. S Coker CT	Secure Lid	Secure Lid	Lid Secured	7/31/2012

Table 4
Wastewater System Monitoring - Third Quarter 2012
Michigan Refining Division

Complex	Unit	Tag ID	Date	Service/Description	First Attempt	Recommended Fix	Final repair	Final Repair Date
6	70	1469	7/25/2012	H2O Seal S Side of 70V33A	Add Water	Add Water	Water Added	7/31/2012
6	70	1884	7/17/2012	JB 3Ft. N Side of corner of conveyor BLDG	Secure Lid	Secure Lid	Lid Secured	7/25/2012
6	72	1662	7/25/2012	JB 20' N of 73P4A in walkway	Secure Lid	Secure Lid	Lid Secured	7/30/2012
6	72	1681	7/25/2012	JB 10' SW of superheater in aisle	Secure Lid	Secure Lid	Lid Secured	7/30/2012
6	72	1687	7/25/2012	H2O Seal S side of 74V9	Add Water	Add Water	Water Added	8/13/2012
6	72	1729	7/25/2012	H2O Seal S Side of 73V2	Add Water	Add Water	Water Added	8/22/2012
6	72	1739	7/25/2012	H2O Seal E Side of 73V3	Add Water	Add Water	Water Added	9/28/2012
6	70	1860	7/27/2012	H2O Seal S Side of 70V1A along walkway	Add Water	Add Water	Water Added	9/27/2012
6	70	1988	7/27/2012	H2O Seal 150' S of Heater in trench drain E side	Add Water	Add Water	Water Added	7/31/2012
1	4	009	7/30/2012	20 Ft. N. of 4E8	Add Water	Add Water	Water Added	8/6/2012
1	5	727	7/30/2012	6 Ft. S.W. 5P2B	Add Water	Add Water	Water Added	8/13/2012
1	5	754	7/30/2012	Drain West of 5H1	Add Water	Add Water	Water Added	8/6/2012
6	70	1547	7/31/2012	H2O Seal 50Ft. N Side of 70V37A Near Walkway	Add Water	Add Water	Water Added	9/27/2012
2	9	1017	8/2/2012	N of 9P2A	Add Water	Add Water	Water Added	8/23/2012
2	9	1025	8/2/2012	H2O Seal N of 9P1A	Add Water	Add Water	Water Added	8/23/2012
2	77	964	8/2/2012	50Ft. SE of 77V16 in roadway	Secure Lid	Secure Lid	Lid Secured	8/6/2012
1	4	012	8/6/2012	1 Ft. E. of 4P63B	Add Water	Add Water	Water Added	8/13/2012
6	70	2160	8/6/2012	Seal inside middle BLDG for Coker conveyor across from CX 6	Add Water	Add Water	Ongoing	Ongoing
6	70	1988	8/7/2012	H2O Seal 150' S of Heater in trench drain E side	Add Water	Add Water	Water Added	10/5/2012
3	11	597	8/8/2012	Catch Basin 20' West of 21V43 in roadway	Add Water	Add Water	Water Added	8/14/2012
3	12-21	1141	8/8/2012	Catch Basin NW of 21T54	Add Water	Add Water	Water Added	8/14/2012
6	70	2118	8/13/2012	CB 20Ft. SW of 70P22A in walkway	Add Water	Add Water	Water Added	8/21/2012
3	12-21	871	8/14/2012	Drain 3Ft. North of 12P146B	Add Water	Add Water	Water Added	8/22/2012
3	12-21	878	8/14/2012	Drain 3Ft. W of 12P144	Add Water	Add Water	Water Added	8/22/2012
6	70	1858	8/21/2012	H2O Seal S Side of 70V1B along walkway	Add Water	Add Water	Ongoing	Ongoing
6	72	2175	8/22/2012	H2O Seal SW Side of 72V1	Add Water	Add Water	Water Added	10/10/2012
6	72	1687	8/22/2012	H2O Seal S side of 74V9	Add Water	Add Water	Water Added	8/28/2012
3	12-21	337	8/23/2012	WS Catch Basin E of 12V26	Add Water	Add Water	Water Added	8/30/2012
6	70	1414	8/27/2012	CO 10Ft. N Side of 70P14A	Add Water	Add Water	Water Added	9/10/2012
6	72	1728	8/28/2012	H2O Seal N side of 73V2	Add Water	Add Water	Water Added	10/10/2012
2	9	1025	8/29/2012	H2O Seal N of 9P1A	Add Water	Add Water	Water Added	10/2/2012

Table 4
Wastewater System Monitoring - Third Quarter 2012
Michigan Refining Division

Complex	Unit	Tag ID	Date	Service/Description	First Attempt	Recommended Fix	Final repair	Final Repair Date
1	5	180	9/4/2012	At the corner of Waring and N. Hamp.	Add Water	Add Water	Water Added	10/8/2012
6	70	1519	9/10/2012	50Ft. S Side of Heater 2C	Secure Lid	Secure Lid	Lid Secured	9/19/2012
6	70	1861	9/10/2012	H2O Seal 15Ft. SW Side of 70V1A along walkway @ elec. box	Add Water	Add Water	Water Added	9/27/2012
5	1	2195	9/12/2012	5 Feet N of 22P193A	Add Water	Add Water	Water Added	9/26/2012
5	1	2196	9/12/2012	15 Feet NE of 22P191A	Add Water	Add Water	Water Added	9/26/2012
5	1	941	9/12/2012	N of 22P192	Add Water	Add Water	Water Added	9/26/2012
4	19	261	9/13/2012	Drain at KHT Reflux Pump (19P3A) Water Sealed	Add Water	Add Water	Water Added	9/27/2012
1	5	049	9/18/2012	S. of 5V3	Add Water	Add Water	Ongoing	Ongoing
1	5	069	9/18/2012	Drain at 5P64	Add Water	Add Water	Water Added	10/8/2012
1	5	791	9/18/2012	W. of 5P10B	Add Water	Add Water	Water Added	9/26/2012
1	9	1016	9/20/2012	N. of 9MD4B	Add Water	Ad	Water Added	9/24/2012
2	7	288	9/24/2012	Funnel Drain at 7V5 - Continuous Condensate	Add Water	Add Water	Water Added	10/9/2012
1	5	083	9/26/2012	N. of 5P57B	Add Water	Add Water	Ongoing	Ongoing
1	5	1061	9/26/2012	6 Ft. S. 29T12	Add Water	Add Water	Water Added	10/8/2012
1	5	882	9/26/2012	N. 5P57A	Add Water	Add Water	Ongoing	Ongoing
1	29	433	9/26/2012	Drain SW Side of Recovered Oil Tank 29T47	Add Water	Add Water	Water Added	10/1/2012
4	14	203	9/27/2012	Drain on NW Side of 14V40	Add Water	Add Water	Water Added	10/10/2012
4	14	205	9/27/2012	Drain SE of 14V6 Debutanizer Column	Install Plug	Install Plug	Plug Installed	10/4/2012
4	14	223	9/27/2012	Drain at SR Net Gas Comp (14C2) Lube Oil Skid - Water Seal	Add Water	Add Water	Water Added	10/4/2012
4	14	674	9/27/2012	Drain Near West End of SR BFW Turbine (14P1A) H2O Seal	Add Water	Add Water	Water Added	10/4/2012
4	16	495	9/27/2012	12' South of 27V20	Install Plug	Install Plug	Plug Installed	10/5/2012
4	17	401	9/27/2012	E 25 Ft. 19V7	Add Water	Add Water	Water Added	10/4/2012
4	19	265	9/27/2012	Drain Under 19H2 KHT Charge Heater	Install Plug	Install Plug	Plug Installed	10/4/2012
4	19	803	9/27/2012	20' South West of 19V9 Near Roadway	Add Water	Add Water	Water Added	10/4/2012
6	70	1519	9/27/2012	50Ft. S Side of Heater 2C	Secure Lid	Secure Lid	Ongoing	Ongoing
6	70	2017	9/27/2012	H2O Seal 20' SW of guard shack W set of vehicle barriers	Add Water	Add Water	Water Added	10/4/2012
6	70	2177	9/27/2012	20Ft. NE Side of 70P22A	Secure Lid	Secure Lid	Ongoing	Ongoing

Table 5
NSR Consent Decree Information Paragraphs 20B and 18P - Third Quarter 2012
Michigan Refining Division

Measures that MPC took during the Third Quarter 2012 to satisfy the provisions of Paragraph 20B and 18P(ii)(b) of the NSR Consent Decree:

Subparagraph	Requirement	Measures taken
20Bi	Training for personnel newly-assigned to LDAR	Greg Shay completed training in July 2009 for LDAR.
20Bii	Annual training for regular LDAR personnel	Regular LDAR work is contracted through Emissions Monitoring Service, Inc (EMSI Inc.) and Seal-Tech. EMSI and Seal-tech trains all personnel, training records are kept on-site.
20Biii	Training for Ops/Maint personnel	Refinery employees are required to complete a yearly Environmental Awareness CBT (Computer Based Training) module. This module, includes training information on the LDAR Program, was initiated on March 12, 2002. Additionally, contractors are required to attend a safety orientation on a yearly basis which includes information on the LDAR Program.
18P(ii)(b)	Laboratory Audits	The Detroit Refinery now has the ability to use RAD, ESC Labs of Nashville, TN, and Bureau Veritas of Livonia, MI to run all BWON samples. The Detroit Refinery began using ESC Labs of Nashville, TN on June 22, 2010.
18P(ii)(b)	Training	Affected Refinery employees are required to complete a yearly Benzene Sampling CBT (Computer Based Training) module. This module, includes training information on the Benzene NESHAP Program, was initiated on August 2002.
18P(ii)(b)	EOL Sampling Results	The EOL Sampling program was approved on March 8, 2010 for the Detroit Refinery. See Table 9 for EOL calculations.

Table 6
NSR Consent Decree Information Paragraph 20Oic(2) - Third Quarter 2012
Michigan Refining Division

Complex	Unit	Description	Month monitored	# valves monitored	# pumps monitored	# compressors monitored	GGG # components leaking/quarter	GGGa # components leaking/quarter	# DTM components	Projected month of next monitoring
1	4	Vacuum Unit	Aug-12	533	5	2	na	1	2	Nov-12
	5	Crude Unit	Aug-12	2,298	32	0	4	na	13	Nov/Dec-12
	29	Wastewater Plant	Jul-12	828	18	0	na	1	0	Nov-12
2	7	Distillate Hydrotreater Unit	Aug-12	1,384	21	3	0	na	22	Nov/Dec-12
	8	Gas Oil Hydrotreater Unit	Aug-12	1,708	5	2	0	na	27	Nov/Dec-12
	9	Alkylation Unit	Jul-12	2,068	30	1	14	na	33	Nov/Dec-12
3	11	Fluid Catalytic Cracking Unit	Aug-12	478	6	0	0	na	14	Nov/Dec-12
	12/21	Gas Con/SATS Depropanizer	Aug-12	2,159	27	1	5	na	16	Nov/Dec-12
	13	Propylene Unit	Aug-12	697	9	3	2	na	4	Nov/Dec-12
4	14	Continuous Catalytic Reforming Unit	Jul-12	2,062	14	2	9	na	31	Nov/Dec-12
	16	Naphtha Hydrotreater Unit	Aug-12	1,688	23	0	na	19	52	Nov-12
	19	Kerosene Hydrotreater Unit	Jul-12	661	8	1	na	3	0	Nov-12
5	1	Crude Tank Farm	Aug-12	809	24	0	1	na	6	Nov/Dec-12
	2	LPG Tank Farm	Aug-12	2,062	20	0	8	na	10	Nov/Dec-12
	3/4	CP/Melvindale Tank Farms	Jul-12	1,714	31	0	2	na	9	Nov/Dec-12
	38	Rouge Terminal	Aug-12	52	2	0	na	0		Nov/Dec-12
		Light Product Terminal	Jul-12	808	15	0	0	na	0	Nov/Dec-12

GGG/GGga leaking component counts includes: valves, pumps and compressors.

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHA - Third Quarter 2012
Michigan Refining Division

Revised stream/equipment name/status	Required monitoring/inspections	Inspection Status	Monitoring/ inspection rule	Equipment Classification	Note No.	Visual	Method 21*
SR Platformer Aromatics Sump (aka CP Sump)	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)			X	
Piping from the CP Sump to the CP Flare Secondary Knockout Drum (25V2)	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)			X	
CP Sump Line from 14P10 to Sour Water Collection Tank (11V25) and Low Pressure Receiver (11V4)	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
CP Flare Knockout Drums - Primary (25V1) and Secondary (25V2)	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)			X	
Piping from CP Flare Knockout Drums to the Slop Tanks 23/508 or the Low Pressure Receiver (11V4)	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from Alky Spent Caustic Holding Tank (9V31) to Alky Flare Knockout Drum (9V38)	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)			X	
Piping from Spent Caustic Drum (21V47) to CP Flare	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)			X	
Piping from Relief Valve of Merox System to CP Flare	Do not need to monitor or inspect this piping since it's now going to the flare system. Point of generation is the Flare Knockout Drum discharge.	-	N/A	--			
Piping from Disulfide Separator (21V33 or #3 Merox) to Slop Tanks 23/508	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Tanks 508 and 23	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)			X	

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHAP - Third Quarter 2012
Michigan Refining Division

Piping from Tank 507 to Slop Tanks 508 and 23	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Gravity Drum near Tank 507 (gravity drum near Tank 59 is currently out of service)	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for		61.343(c)			X	
Tanks 29T40 and 29T41 (Permitted as QQQ tanks with external floating roofs)	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)			X	
Piping from API separator to Tanks 29T40/41	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from Tanks 29T40/41 to Slop Tanks 23 and 508	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from Unifiner, Alkylation, GOHT, and Crude Flare Knock-Out Drums to Tanks 23 and 508	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Vacuum Trucks	The cover and all openings (e.g., bungs, hatches, and sampling ports) must be monitored initially and annually for NDE.	Conducted 2nd Quarter 2011	61.345(a)(1)(i)	Containers			X
	Each cover and all openings shall be visually inspected initially and quarterly to ensure that they are closed and gasketed properly.	Completed	61.345(b)	Containers		X	
Piping from NHT Particulate Filter Relief to Refinery Slop System	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from the Disulfide Off-Gas Knockout Drum (12V36) to Refinery Slop System	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHAP - Third Quarter 2012
Michigan Refining Division

Piping from the West Plant Slop System to Slop Tanks 23/508	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Piping associated with the carbon canister stations	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
Carbon Canisters	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Control Devices			X
	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
Water Draw Covers This includes tanks in the Crude tank farm (6, 36, 39, 40, 41, 45, 46, 47, 48, 49, 53, 61, 72), CP Tank Farm (21, 57), and Melvindale Tank Farm (102, 103, 104, 105, 106, 107, etc).	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
CP Flare	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Control Devices			X
	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
Piping from Tank 507 to the Benzene Stripper Column	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
Benzene Stripper Column (5V36)	The cover and all openings (e.g., access hatches, sampling ports, etc) must be monitored initially and annually for NDE.	Completed	61.348(a)(2)	Treatment Processes			X
	Each seal, access door, and all other openings shall be visually inspected initially and quarterly to ensure that no cracks or gaps occur and all openings are closed and gasketed properly.		61.348(e)(1)		X		
Piping from the top of the Benzene Stripper Column (5V36) to the Overhead Condensers (5E41A/B) and to the Overhead Receiver (5V37)	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
Benzene Stripper overhead condensers (5E41A/B)	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
Piping from the Crude Desalters (5V31/32) to the Benzene Stripper Column (5V36)	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
Piping from the Benzene Stripper (5V36) to the Brute Force System	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Brute Force System	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)		X		

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHA - Third Quarter 2012
Michigan Refining Division

Tank 507	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)			X	
Piping from the Benzene Stripper Overhead Receiver (5V37) to the Crude Desalters	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
API separator, forebay, and associated equipment	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.347(a)(1)(i)(A)	Oil-Water separators			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly to ensure that no cracks or gaps occur between the cover and oil-water separator wall and that access hatches and other openings are closed and gasketed properly.		61.347(b)			X	
Piping from Gravity Drum near Tank 507 to Slop Tanks 23 and 508	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping at Gravity Drum near Tank 507 and piping at Tank 508 used for Vacuum Truck Operations (Gravity Drum near Tank 59 currently out of service).	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from Tank 51 to Slop Tank 23/508.	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Tank 51/52	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)			X	
Piping from Tank 52 to Slop Tanks 23/508.	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from CP Flare Secondary Knockout Drum to CP Flare	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)			X	

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHA - Third Quarter 2012
Michigan Refining Division

Piping on Hydrocarbon/Liquid Line from CP Sump to FCCU Low Pressure Receiver or Refinery Slop System.	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE. Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(1)(i)(A) 61.346(a)(2)	Individual Drain System			X
							X
Piping from CP Flare Knockout Drums to the FCCU High and Low Pressure Slop Header	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE. Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(1)(i)(A) 61.346(a)(2)	Individual Drain System			X
							X
Piping from CP Sump to FCCU High and Low Pressure Slop Header	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE. Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(1)(i)(A) 61.346(a)(2)	Individual Drain System			X
							X
Piping from FCCU High Pressure Slop Header to High Pressure Slop Bullets	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE. Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(1)(i)(A) 61.346(a)(2)	Individual Drain System			X
							X
Piping from FCCU Low Pressure Slop Header to Low Pressure Slop Bullets	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE. Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(1)(i)(A) 61.346(a)(2)	Individual Drain System			X
							X
High and low pressure slop bullets	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE. Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(e)(1)(i)(A) 61.343(c)	Tanks			X
							X
Aboveground Sewer Lines from Melvindale or Crude Tank Farms to Tank 507	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE. Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(1)(i)(A) 61.346(a)(2)	Individual Drain System			X
							X
Piping from the Marketing Terminal Sewer to Slop Tanks 23/508	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE. Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(1)(i)(A) 61.346(a)(2)	Individual Drain System			X
							X

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHA - Third Quarter 2012
Michigan Refining Division

Truck Drain Downs at Terminal Loading Rack	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Aboveground piping from Truck Drain Downs to NESHA Sump	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Terminal NESHA Sump	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)		X		
Tank 29T47	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)		X		
All piping To and From 29T47	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Piping from Spent Caustic Tank (9V10) to New Caustic Pot (9T29)	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Spent Caustic Pot 9T29	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)		X		
Tank Cleanouts	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Railcars (when applicable to BWON)	The cover and all openings (e.g., bungs, hatches, and sampling ports) must be monitored initially and annually for NDE.	Conducted 2nd Quarter 2011	61.345(a)(1)(i)	Containers			X
	Each cover and all openings shall be visually inspected initially and quarterly to ensure that they are closed and gasketed properly.	Completed	61.345(b)	Containers	X		
Frac Tanks (when applicable to BWON)	The cover and all openings (e.g., bungs, hatches, and sampling ports) must be monitored initially and annually for NDE.	Completed	61.345(a)(1)(i)	Containers			X
	Each cover and all openings shall be visually inspected initially and quarterly to ensure that they are closed and gasketed properly.		61.345(b)	Containers	X		

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHA - Third Quarter 2012
Michigan Refining Division

Slop Oil Drums	The cover and all openings (e.g., bungs, hatches, and sampling ports) must be monitored initially and annually for NDE.	Completed Monthly	61.345(a)(1)(i)	Containers			X
	Each cover and all openings shall be visually inspected initially and quarterly to ensure that they are closed and gasketed properly.		61.345(b)	Containers		X	
All piping to Lab Slop Oil Tank	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Lab Slop Tank	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)			X	
Piping at API Separator used for Vacuum Truck Operations	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from Slop Tanks 23/508 to Crude Unit	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from Complex 1 Flare Knockout Drum to the Crude Flare.	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)			X	
Crude Flare Itself	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Control Devices			X
	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)			X	
Piping from the Propane Caustic Scrubber 9V22 to Alky Spent Caustic Holding Tank 9V31	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from the Alky Spent Caustic Holding Tank 9V31 used for Vacuum/Tank Trucks Operations	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		X	
Unifiner Flare Knockout Drum	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)			X	
Piping from the Unifiner Flare Knockout Drum to the Unifiner Flare	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)			X	
Unifiner Flare Itself	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Control Devices			X
	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)			X	

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHA - Third Quarter 2012
Michigan Refining Division

GOHT Flare Knockout Drum	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for evidence of visible defects.		61.343(c)			X	
Piping from the GOHT Flare Knockout Drum to the Unifiner Flare	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)			X	
Alky Flare Knockout Drums	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and must be monitored initially and annually for NDE.		61.343(c)			X	
Piping from the Alky Flare Knockout Drums to the Alky Flare	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)			X	
Alky Flare Itself	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Control Devices			X
	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)			X	
Piping from Caustic Wash Drum (9V10) to Spent Caustic Pot (9T29)	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from SWS Feed Surge Drum to Slop Tanks 23/508	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Vacuum Truck Operations at Spent Caustic Tank 21T47	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from the CP Primary Flare Knockout Drum 25V1 to the Secondary Knockout Drum 25V2	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from Disulfide Separator (21V33 or #3 Merox) to Spent Caustic Tank 21T47	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from the Caustic Scrubber (12V5) to Slop Tanks 23/508	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHA - Third Quarter 2012
Michigan Refining Division

Piping from the P.P Caustic Wash Tower (13V1A/B) to Spent Caustic Tank (21T47)	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Spent Caustic Tank 21T47	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)		X		
Piping from the Debutanizer Overhead Receiver 14V7/Water KO Pot to Aromatic Sump	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Piping from the Fuel Gas Coalescers to Aromatic Sump	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Piping from Low/High Pressure Slop Bullets to LPG Knockout Pot 22-1V5	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
LPG Knockout Drum	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)		X		
Piping from LPG Knockout Pot to Unifiner Knockout Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Piping from the Terminal NESHA Sump to VRU or Combustor	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
VRU and Combustor	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Control Devices			X
	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
Fugitive Emissions Eliminator	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Control Devices			X
	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
RVP Analyzer	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Control Devices			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHA - Third Quarter 2012
Michigan Refining Division

New Vacuum Truck Hookup at API Skim Pit	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Control Devices			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
Piping from Spent Caustic Pot (9T29) to Vacuum Truck Hookup	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Control Devices			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
Piping from RVP Analyzer Sample to Fugitive Emissions Eliminator	Must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System			X
	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.		61.349(f)		X		
Piping from the MVGO Filter Changeouts to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Piping from the HVGO Filter Changeouts to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Piping from the LVGO Filter Changeouts to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Piping from the AGO Filter Changeouts to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Compressor Lube Oil Filter Changeouts (7C2) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Compressor Lube Oil Filter Changeouts (8V31A/B) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Compressor Lube Oil Filter Changeouts (8V30A/B) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Lube Oil Filter Changeouts (9V45A/B) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		
Hydraulic Oil Filter Changeouts to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		X		

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHA - Third Quarter 2012
Michigan Refining Division

Slurry Stripper Bottoms Strainer Changeouts to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Strainer Changeouts (12V47/48) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Lube Oil Filter Changeouts (11V46A/B) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
#6 Gas Lube Oil Filter Changeouts (12V54/55) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Lube Oil Filter Changeouts (12V45A/B) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Lean Amine Filter Changeouts (12V45) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Lean Amine Surge Drum (12V9) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Trim Compressor Lube Oil Filter Changeouts (13V15) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Trim Compressor Lube Oil Filter Changeouts (13V9) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Lube Oil Filter Changeouts (14ME10A/B) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Lube Oil Filter Changeouts (14ME12A/B) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHAP - Third Quarter 2012
Michigan Refining Division

Compressor Cylinder Oil Filter Changeouts (14ME18A/B) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Compressor Lube Oil Filter Changeouts (14ME17A/B) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
NHT Naphtha Feed Filter Changeouts to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			X	
Piping from Alky Spent caustic tank 9V10, 9V31, and 9V40 through refiner flare line to the flare itself	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.346(a)(2)	Individual Drain System		X	
API Separator Floating Roof Inspections	5 year primary seal, Annual secondary seal.	Completed	61.352(a)(1)	Alternative Standards for Oil-Water separators	2		

Notes:

1. Visual inspections carried out during February 2012
2. Secondary Seal was inspected during March 2012

*Method 21 readings for valves are completed quarterly.

Table 8
Exceedance Summary for Various Control Equipment or Treatment Processes
Third Quarter 2012
Michigan Refining Division

Equipment	Reporting Requirement	No. of Reportable Exceedances this Quarter	Regulation	Equipment Classification
Desalter Water Flash Column	Each period of operation during which the concentration of benzene is > or = to 10 ppm based upon monthly sampling of Desalter Water Flash Column effluent.	0	40 CFR 61.348(a)(1)(i) & 357(d)(7)(i)	Treatment Processes
Carbon Canisters	Each occurrence when the carbon in a carbon adsorber system that is not regenerated directly on site in the control device is not replaced at the predetermined interval specified.	0	40 CFR 61.357(d)(7)(iv)(i)	Closed Vent System or Control Device
		0	40 CFR 60.592-5(e)(5)	Closed Vent System or Control Device
Water Draw covers	All water draw covers associated with NESHAP program should be tightly sealed. This includes tanks in the Crude tank farm (6, 38, 39, 40, 41, 45, 48, 47, 48, 49, 53, 61, 72), CP Tank Farm (21, 57), and Melvindale Tank Farm (102, 103, 104, 105, 106, 107, 120, 125, 126, 127, 128, 133, 134, 112, 113, 114, 115, 129, 130, 176, 108, 109, 110, 116)	11	61.349(f)	Closed Vent System
Inspections ¹	Summarizes all inspections required by 61.342 through 61.354 during which detectable emissions are measured or a problem (such as a broken seal, etc.) that could result in benzene emissions, including information about the repairs or corrective action taken.	59	61.357(d)(8)	See Table 7
CP Flare	Each period in which the pilot flame of a flare is absent.	0	40 CFR 61.357(d)(7)(iv)(F)	Closed Vent System or Control Device
Unifiner Flare	Each period in which the pilot flame of a flare is absent.	0	40 CFR 61.357(d)(7)(iv)(F)	Closed Vent System or Control Device
Alkylation Flare	Each period in which the pilot flame of a flare is absent.	0	40 CFR 61.357(d)(7)(iv)(F)	Closed Vent System or Control Device
Crude Flare	Each period in which the pilot flame of a flare is absent.	0	40 CFR 61.357(d)(7)(iv)(F)	Closed Vent System or Control Device
Vapor Recovery Unit	Each 3-hour period of operation during which the average temperature of the gas stream in the combustion zone of a thermal vapor incinerator, as measured by the temperature monitoring device is more than 28°C (50°F) below the design combustion zone temperature.	0	40 CFR 61.357(d)(7)(iv)(A)	Closed Vent System or Control Device
Combustor	Each 3-hour period of operation during which the average temperature of the gas stream in the combustion zone of a boiler or process heater having a design heat input capacity less than 44 MW, as measured by the temperature monitoring device, is more than 28°C (50°F) below the design combustion zone temperature.	0	40 CFR 61.357(d)(7)(iv)(C)	Closed Vent System or Control Device
Fugitive Emissions Eliminator	Each occurrence when the carbon in a carbon adsorber system that is not regenerated directly on site in the control device is not replaced at the predetermined interval specified.	0	40 CFR 61.357(d)(7)(iv)(i)	Closed Vent System or Control Device

Note: 1. Inspections include valves and flanges that had NDE reading above 500 ppm. If deficiencies are noted, an attached summary sheet will be included.



MARATHON - DETROIT
1300 SOUTH FORT STREET
DETROIT, MI 48217

10/23/2012

LEAKING EQUIPMENT LOG

Program: NESHAPS-FF

Reporting Period 07/01/2012 - 09/30/2012

Process Unit : 01

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2194	OTHER/ HATCH	0.00	W of carbon can station# 11 in the API								
				07/23/2012	M21	12200 PPM	OTH GASK	07/23/2012	OTH-TG	4349.00	
				07/23/2012	M21	4349 PPM		07/23/2012	OTH-TFL	41.00	
				07/23/2012	M21	41 PPM					07/23/2012

Process Unit 01 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	0	0
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	1	1

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 09/30/2012

Process Unit : 02

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2324	VALVE/ CTRL	4.00	DOT LINE S SIDE OF TK98 40FT.N OF TORONTO RDWY. CV MOV 16A.								
				08/06/2012	VIS	F	VLV-PKG	08/06/2012	VLV-CL	505.00	
				08/06/2012	M21	505 PPM					
				08/06/2012	M21	482 PPM					
				08/06/2012	VIS	P					08/06/2012
2366	VALVE/ BALL	3.00	15FT SW OF TK98 @UG-5-009 DOT LINE	*** Placed on Delay for Turnaround on 05/02/2012							
				04/18/2012	M21	3504 PPM	VLV-PKG	04/18/2012	VLV-CL	2155.00	
				04/18/2012	M21	2155 PPM		04/20/2012	VLV-INJ	1800.00	
				04/20/2012	M21	1800 PPM		05/16/2012	VLV-CL	0.00	
				05/16/2012	VIS	F					
				05/16/2012	M21	18500 PPM					
				05/16/2012	M21	38100 PPM		06/11/2012	VLV-CL	17400.00	
				06/11/2012	M21	17400 PPM					
				06/11/2012	M21	6420 PPM		07/24/2012	VLV-CL	984.00	
				07/24/2012	M21	984 PPM		08/06/2012	VLV-CL	0.00	
				08/06/2012	VIS	F					
				08/06/2012	M21	1509 PPM					
2371.01	CONNECTOR/ FLANGE	3.00	11FT NW OF 22P51@UG-5-017 DOT LINE								
				08/06/2012	VIS	F	CON-FLG	08/06/2012	CON-CLA	625.00	
				08/06/2012	M21	625 PPM					
				08/06/2012	M21	585 PPM		08/07/2012	CON-TFL G	160.00	
				08/07/2012	M21	160 PPM					
				08/07/2012	VIS	P					08/07/2012
2383A	VALVE/ CHECK	6.00	3FT NW OF 22P51.NE OF CASING PRESSURE PANEL								
				08/06/2012	VIS	F	VLV-FLG	08/06/2012	VLV-CAP	1146.00	
				08/06/2012	M21	1146 PPM					

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2425	VALVE/ BALL	1.00	E OF 22P50.W OF STAIRS	08/06/2012	M21	782 PPM		08/20/2012	VLV-TP	22.00	
				08/20/2012	M21	22 PPM					
				08/20/2012	VIS	P					08/20/2012
				08/06/2012	VIS	F	VLV-PKG	08/06/2012	VLV-CL	508.00	
				08/06/2012	M21	508 PPM					
2427.09	CONNECTOR/ 90	1.00	N OF 22P50.W OF STAIRS.22-1PSV9637	08/06/2012	M21	567 PPM		08/20/2012	VLV-TP	0.00	
				08/20/2012	VIS	P					
				08/20/2012	M21	7 PPM					08/20/2012
				08/06/2012	VIS	F	CON-90	08/06/2012	CON-CLA	1198.00	
				08/06/2012	M21	1198 PPM					
2527	VALVE/ CTRL	4.00	14FT SE OF TK191.DOT LINE.CV MOV 42A	08/06/2012	M21	1058 PPM		08/20/2012	CON-TC ON	0.00	
				08/20/2012	VIS	P					
				08/20/2012	M21	9 PPM					08/20/2012
				08/07/2012	VIS	F	VLV-PKG	08/07/2012	VLV-CL	596.00	
				08/07/2012	M21	596 PPM					
2586.03	CONNECTOR/ FLANGE	2.00	TOP S SIDE OF TK 99 TOP FLANGE	08/07/2012	M21	761 PPM		08/20/2012	VLV-TP	0.00	
				08/20/2012	VIS	P					
				08/20/2012	M21	43 PPM					08/20/2012
				08/01/2012	VIS	F	CON-FLG	08/01/2012	CON-CLA	4278.00	
				08/01/2012	M21	4278 PPM					
				08/01/2012	M21	14000 PPM		08/02/2012	CON-CLA	87.00	
				08/02/2012	M21	87 PPM					

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Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				08/02/2012	VIS	P					08/02/2012
2635.02	CONNECTOR/ 90-FLG	4.00	22P42 W OF TK 98. N FLANGE.								
				08/01/2012	M21	2924 PPM	CON-FLG	08/01/2012	CON-CLA	1662.00	
				08/01/2012	M21	1662 PPM		08/01/2012	CON-TF	0.00	
				08/01/2012	VIS	P					
				08/01/2012	M21	41 PPM					08/01/2012
2645.01	CONNECTOR/ FLANGE	3.00	22P81 W OF TK 98.1FT N OF PUMP.S FLANGE.								
				08/01/2012	M21	1924 PPM	CON-FLG	08/01/2012	CON-CLA	1971.00	
				08/01/2012	M21	1971 PPM		08/01/2012	CON-TF	0.00	
				08/01/2012	VIS	P					
				08/01/2012	M21	160 PPM					08/01/2012
2656.01	CONNECTOR/ FLANGE	3.00	UNDERNEATH TK99 IN MIDDLE .TOP FLANGE.								
				08/02/2012	VIS	F	CON-FLG	08/02/2012	CON-CLA	1601.00	
				08/02/2012	M21	1601 PPM					
				08/02/2012	M21	2084 PPM		08/02/2012	CON-TF	135.00	
				08/02/2012	M21	135 PPM					
				08/02/2012	VIS	P					08/02/2012
2656.02	CONNECTOR/ FLANGE	3.00	UNDERNEATH TK99 IN MIDDLE .BTM FLANGE.								
				08/02/2012	VIS	F	CON-FLG	08/02/2012	CON-CLA	2225.00	
				08/02/2012	M21	2225 PPM					
				08/02/2012	M21	976 PPM		08/02/2012	CON-TF	6.00	
				08/02/2012	M21	6 PPM					
				08/02/2012	VIS	P					08/02/2012
2657.02	CONNECTOR/ FLANGE	3.00	UNDERNEATH TK99 IN MIDDLE.BTM FLANGE.								

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Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2657.02	CONNECTOR/ FLANGE	3.00	UNDERNEATH TK99 IN MIDDLE.BTM FLANGE.								
				08/02/2012	VIS	F	CON-FLG	08/02/2012	CON-CLA	1253.00	
				08/02/2012	M21	1253 PPM					
				08/02/2012	M21	1938 PPM		08/02/2012	CON-TFL G	5.00	
				08/02/2012	M21	5 PPM					
				08/02/2012	VIS	P					08/02/2012
2657.03	CONNECTOR/ FLANGE	6.00	UNDERNEATH TK99 IN MIDDLE.N BTM FLANGE.								
				08/02/2012	VIS	F	CON-FLG	08/02/2012	CON-CLA	637.00	
				08/02/2012	M21	637 PPM					
				08/02/2012	M21	682 PPM		08/02/2012	CON-TF	17.00	
				08/02/2012	M21	17 PPM					
				08/02/2012	VIS	P					08/02/2012
2666.02	CONNECTOR/ FLANGE	3.00	UNDERNEATH TK191 IN MIDDLE. TOP FLANGE.								
				08/02/2012	VIS	F	CON-FLG	08/02/2012	CON-CLA	808.00	
				08/02/2012	M21	808 PPM					
				08/02/2012	M21	827 PPM		08/02/2012	CON-TF	52.00	
				08/02/2012	M21	52 PPM					
				08/02/2012	VIS	P					08/02/2012
2813.04	CONNECTOR/ SCREWED	0.50	N SIDE OF TK 190 @ BTM.								
				08/01/2012	M21	2852 PPM	CON-CAP	08/01/2012	CON-TFI	11300.00	
				08/01/2012	M21	11300 PPM		08/01/2012	CON-TCA	0.00	
				08/01/2012	VIS	P					
				08/01/2012	M21	30 PPM					08/01/2012
2826.01	CONNECTOR/ FLANGE	3.00	N SIDE OF TK 99 @ BTM. TOP FLANGE.								

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Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2826.01	CONNECTOR/ FLANGE	3.00	N SIDE OF TK 99 @ BTM. TOP FLANGE.	08/01/2012	M21	2703 PPM	CON-FLG	08/01/2012	CON-CLA	1193.00	
				08/01/2012	M21	1193 PPM		08/01/2012	CON-TF	0.00	
				08/01/2012	VIS	P					
				08/01/2012	M21	230 PPM					08/01/2012
2866.02	CONNECTOR/ FLANGE	3.00	BTWN TK 99 & 98. N SIDE S OF LADDER. TOP FLANGE.	08/01/2012	VIS	F	CON-FLG	08/01/2012	CON-CLA	843.00	
				08/01/2012	M21	843 PPM					
				08/01/2012	M21	556 PPM		08/02/2012	CON-TFL G	24.00	
				08/02/2012	M21	24 PPM					
				08/02/2012	VIS	P					08/02/2012
3161.01	CONNECTOR/ PLUG	0.75	SESD OF TK 95 ON S/G 7FT E OF TK 94	08/02/2012	VIS	F	CON-PLG	08/02/2012	CON-CLA	2080.00	
				08/02/2012	M21	2080 PPM					
				08/02/2012	M21	12900 PPM		08/02/2012	CON-TP	17.00	
				08/02/2012	M21	17 PPM					
				08/02/2012	VIS	P					08/02/2012
3264.04	CONNECTOR/ FLANGE	3.00	SSD OF BULLET TK 91 ON TOP 7FT FROM TK 90	08/02/2012	VIS	F	CON-FLG	08/02/2012	CON-CLA	1344.00	
				08/02/2012	M21	1344 PPM					
				08/02/2012	M21	578 PPM		08/03/2012	CON-TF	230.00	
				08/03/2012	M21	230 PPM					
				08/03/2012	VIS	P					08/03/2012
3282.02	CONNECTOR/ PLUG	0.75	SSD OF BULLET TK 90 ON TOP 7FT E OEF TK 89								

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3282.02	CONNECTOR/ PLUG	0.75	SSD OF BULLET TK 90 ON TOP 7FT E OEF TK 89	08/02/2012	VIS	F	CON-PLG	08/02/2012	CON-CLA	2057.00	
				08/02/2012	M21	2057 PPM					
				08/02/2012	M21	3386 PPM		08/03/2012	CON-TP	70.00	
				08/03/2012	M21	70 PPM					
				08/03/2012	VIS	P					08/03/2012
3365.01	CONNECTOR/ PLUG	0.75	BTM SESD OF BULLET 94 10FT E OF BULLET 93	08/03/2012	VIS	F	CON-PLG	08/03/2012	CON-CLA	2095.00	
				08/03/2012	M21	2095 PPM					
				08/03/2012	M21	3591 PPM		08/03/2012	CON-TPL G	27.00	
				08/03/2012	M21	27 PPM					
				08/03/2012	VIS	P					08/03/2012
3664.01	CONNECTOR	2.00	NORTH END RAIL LOADING RACKS ON 1ST PLTFM	08/03/2012	VIS	F	CON-SCR	08/03/2012	CON-CLA	1979.00	
				08/03/2012	M21	1979 PPM					
				08/03/2012	M21	391 PPM		08/03/2012	CON-CLA	14.00	
				08/03/2012	M21	14 PPM					
				08/03/2012	VIS	P					08/03/2012
3667A	VALVE/ CHECK	0.75	NORTH END RAIL LOADING RACKS ON 1ST PLTFM	08/03/2012	VIS	F	VLV-SCR	08/03/2012	VLV-CL	879.00	
				08/03/2012	M21	879 PPM					
				08/03/2012	M21	1426 PPM		08/03/2012	VLV-TCO N	18.00	
				08/03/2012	M21	18 PPM					
				08/03/2012	VIS	P					08/03/2012

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Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
3667A.01	CONNECTOR	0.50	NORTH END RAIL LOADING RACKS ON 1ST PLTFM	08/03/2012	VIS	F	CON-SCR	08/03/2012	CON-CLA	3131.00	
				08/03/2012	M21	3131 PPM					
				08/03/2012	M21	1570 PPM		08/03/2012	CON-TC ON	16.00	
				08/03/2012	M21	16 PPM					
				08/03/2012	VIS	P					08/03/2012
3667A.02	CONNECTOR	0.25	NORTH END RAIL LOADING RACKS ON 1ST PLTFM	08/03/2012	VIS	F	CON-SCR	08/03/2012	CON-CLA	245200.00	
				08/03/2012	M21	245200 PPM					
				08/03/2012	M21	27900 PPM		08/03/2012	CON-TC ON	4.00	
				08/03/2012	M21	4 PPM					
				08/03/2012	VIS	P					08/03/2012
3677.06	CONNECTOR/ REDUCER	0.75	NORTH END RAIL LOADING RACKS ON 1ST PLTFM	08/03/2012	VIS	F	CON	08/03/2012	CON-CLA	79600.00	
				08/03/2012	M21	79600 PPM					
				08/03/2012	M21	17500 PPM		08/03/2012	CON-TC ON	12.00	
				08/03/2012	M21	12 PPM					
				08/03/2012	VIS	P					08/03/2012
3694.05	CONNECTOR	0.75	MDL OF RAIL LOADING RACKS ON 1ST PLTFM	08/03/2012	VIS	F	CN-TC	08/03/2012	CON-CLA	1180.00	
				08/03/2012	M21	1180 PPM					
				08/03/2012	M21	3287 PPM		08/06/2012	CON-TC ON	2.00	

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3704.03	CONNECTOR	0.75	MDL OF RAIL LOADING RACKS ON 1ST PLTFM	08/06/2012	M21	2 PPM					
				08/06/2012	VIS	P					08/06/2012
				08/03/2012	VIS	F	CON-SCR	08/03/2012	CON-CLA	1347.00	
				08/03/2012	M21	1347 PPM					
				08/03/2012	M21	1116 PPM		08/06/2012	CON-TC ON	112.00	
				08/06/2012	M21	112 PPM					
				08/06/2012	VIS	P					08/06/2012
3721.04	CONNECTOR/ 90	0.75	MDL OF RAIL LOADING RACKS ON 1ST PLTFM	08/03/2012	VIS	F	CON-90	08/03/2012	CON-CLA	695.00	
				08/03/2012	M21	695 PPM					
				08/03/2012	M21	1055 PPM		08/06/2012	CON-CLA	60.00	
				08/06/2012	M21	60 PPM					
				08/06/2012	VIS	P					08/06/2012
3962.07	CONNECTOR/ TUBCON	0.50	ON PUMP 22P87 FROM SEAL @ UNION 10' W OF TK80	08/04/2012	VIS	F	CON	08/04/2012	CON-CLA	991.00	
				08/04/2012	M21	991 PPM					
				08/04/2012	M21	1369 PPM		08/06/2012	CON-TC ON	5.00	
				08/06/2012	M21	5 PPM					
				08/06/2012	VIS	P					08/06/2012
3963.01	CONNECTOR/ PLUG	1.00	ON PUMP 22P87 DISCHARGE LINE 10' W OF TK80	08/04/2012	M21	175200 PPM	CON-PLG	08/04/2012	CON-CLA	1977.00	
				08/04/2012	M21	1977 PPM		08/06/2012	CON-TP	20.00	

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Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
3965.01	CONNECTOR/ FLANGE	3.00	ON PUMP 22P87 DISCHARGE LINE 12' W OF TK80	08/06/2012	M21	20 PPM					08/06/2012
				08/04/2012	VIS	F	CON-FLG	08/04/2012	CON-CLA	12800.00	
				08/04/2012	M21	12800 PPM					
				08/04/2012	M21	11300 PPM		08/06/2012	CON-TFL G	98.00	
				08/06/2012	M21	98 PPM					
				08/06/2012	VIS	P					08/06/2012
3987.09	CONNECTOR/ SCREWED	0.50	PUMP 22P86 FROM SEAL @ ELBOW 12' W OF TK80	08/04/2012	VIS	F	CON	08/04/2012	CON-CLA	703.00	
				08/04/2012	M21	703 PPM					
				08/04/2012	M21	560 PPM		08/06/2012	CON-TC ON	6.00	
				08/06/2012	M21	6 PPM					
				08/06/2012	VIS	P					08/06/2012
3990.02	CONNECTOR/ FLANGE	3.00	PUMP 22P86 DISCHARGE LINE 12' W OF TK80	08/04/2012	VIS	F	CON-FLG	08/04/2012	CON-CLA	700.00	
				08/04/2012	M21	700 PPM					
				08/04/2012	M21	710 PPM		08/06/2012	CON-TFL G	70.00	
				08/06/2012	M21	70 PPM					
				08/06/2012	VIS	P					08/06/2012
3999.02	CONNECTOR/ FLANGE	3.00	PUMP 22P85 ON SUCTION LINE W OF TK80	08/04/2012	VIS	F	CON-FLG	08/04/2012	CON-CLA	4139.00	
				08/04/2012	M21	4139 PPM					
				08/04/2012	M21	4579 PPM		08/06/2012	CON-TFL	20.00	

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Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
G											
4013.01	CONNECTOR/ FLANGE	3.00	PUMP 22P85 ON DISCHARGE LINE W OF TK80	08/06/2012	M21	20 PPM					
				08/06/2012	VIS	P					08/06/2012
				08/04/2012	VIS	F	CON-FLG	08/04/2012	CON-CLA	627.00	
				08/04/2012	M21	627 PPM					
				08/04/2012	M21	756 PPM		08/06/2012	CON-TFL G	45.00	
				08/06/2012	M21	45 PPM					
				08/06/2012	VIS	P					08/06/2012
4052	VALVE/ ORBIT	6.00	S SIDE TK82 TOP BLK	07/23/2012	M21	1835 PPM	VLV-PKG	07/23/2012	VLV-CL	632.00	
				07/23/2012	M21	632 PPM		07/24/2012	VLV-INJ	10.00	
				07/24/2012	M21	10 PPM					
				08/04/2012	VIS	P					
				08/04/2012	M21	85.51 PPM					08/04/2012
4058.06	CONNECTOR/ FLANGE	16.00	S SIDE TK82 TOP BLK.BTM FLANGE	08/04/2012	VIS	F	CON-FLG	08/04/2012	CON-CLA	62500.00	
				08/04/2012	M21	62500 PPM					
				08/04/2012	M21	6606 PPM		08/09/2012	CON-TF	1465.00	
				08/09/2012	M21	1465 PPM		08/16/2012	CON-TF	5.00	
				08/16/2012	M21	5 PPM					
				08/16/2012	VIS	P					08/16/2012
4061	VALVE/ ORBIT	6.00	S SIDE TK83 TOP BLK	08/07/2012	VIS	F	VLV-PKG	08/07/2012	VLV-CL	1230.00	
				08/07/2012	M21	1230 PPM					
				08/07/2012	M21	1432 PPM		08/07/2012	VLV-INJ	152.00	

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4093.02	CONNECTOR/ FLANGE	3.00	N SIDE TK81 TOP BLDR	08/07/2012	M21	152 PPM					
				08/07/2012	VIS	P					08/07/2012
				08/07/2012	VIS	F	CON-FLG	08/07/2012	CON-CLA	35500.00	
				08/07/2012	M21	35500 PPM					
				08/07/2012	M21	2002 PPM		08/10/2012	CON-TF	25000.00	
				08/10/2012	M21	25000 PPM		08/20/2012	CON-TP	0.00	
				08/20/2012	VIS	P					
				08/20/2012	M21	37 PPM					08/20/2012
4123.01	CONNECTOR/ FLANGE	3.00	N SIDE TK83 TOP CHAIN VLV	08/07/2012	VIS	F	CON-FLG	08/07/2012	CON-CLA	1319.00	
				08/07/2012	M21	1319 PPM					
				08/07/2012	M21	1029 PPM		08/09/2012	CON-TF	48.00	
				08/09/2012	M21	48 PPM					
				08/09/2012	VIS	P					08/09/2012
4127	VALVE/ ORBIT	3.00	N SIDE TK83 TOP BLK	08/07/2012	VIS	F	VLV-PKG	08/07/2012	VLV-CL	2003.00	
				08/07/2012	M21	2003 PPM					
				08/07/2012	M21	4298 PPM		08/09/2012	VLV-INJ	15.00	
				08/09/2012	M21	15 PPM					
				08/09/2012	VIS	P					08/09/2012
4215.02	CONNECTOR/ TEE-SCR	0.75	TK 83 S SIDE BTM	08/08/2012	VIS	F	CON-TEE	08/08/2012	CON-CLA	591.00	
				08/08/2012	M21	591 PPM					
				08/08/2012	M21	563 PPM		08/09/2012	CON-TC ON	4.00	

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Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
4215.03	CONNECTOR/ PLUG	0.75	TK 83 S SIDE BTM	08/09/2012	M21	4 PPM					
				08/09/2012	VIS	P					08/09/2012
				08/08/2012	VIS	F	CON-PLG	08/08/2012	CON-CLA	365500.00	
				08/08/2012	M21	365500 PPM					
				08/08/2012	M21	47400 PPM		08/09/2012	CON-TP	5.00	
				08/09/2012	M21	5 PPM					
				08/09/2012	VIS	P					08/09/2012
4216.01	CONNECTOR/ SCREWED	0.75	TK 83 S SIDE BTM (DISCONNECTED @ GRD)	08/08/2012	VIS	F	CON-CAP	08/08/2012	CON-CLA	971.00	
				08/08/2012	M21	971 PPM					
				08/08/2012	M21	1051 PPM		08/09/2012	CON-TCA	2.00	
				08/09/2012	M21	2 PPM					
				08/09/2012	VIS	P					08/09/2012
4249	VALVE/ ORBIT	4.00	TK 82 S SIDE BTM BLK UNDERNEATH	08/07/2012	VIS	F	VLV-PKG	08/07/2012	VLV-CL	1192.00	
				08/07/2012	M21	1192 PPM					
				08/07/2012	M21	1655 PPM		08/07/2012	VLV-TP	130.00	
				08/07/2012	M21	130 PPM					
				08/07/2012	VIS	P					08/07/2012
4251	VALVE/ GATE	0.75	TK 82 S SIDE BTM BLK UNDERNEATH	08/07/2012	VIS	F	VLV-PKG	08/07/2012	VLV-CL	899.00	
				08/07/2012	M21	899 PPM					
				08/07/2012	M21	739 PPM		08/09/2012	VLV-RV	92.00	
				08/09/2012	M21	92 PPM					
				08/09/2012	VIS	P					08/09/2012

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Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
4253.01	CONNECTOR/ PLUG	0.50	TK 81 S SIDE OVHD TEMP MTR	08/08/2012	VIS	F	CON-PKG	08/08/2012	CON-CLA	20500.00	
				08/08/2012	M21	20500 PPM					
				08/08/2012	M21	40200 PPM		08/09/2012	CON-TP	4.00	
				08/09/2012	M21	4 PPM					
				08/09/2012	VIS	P					08/09/2012
4262.01	CONNECTOR/ PLUG	0.75	TK81 S SIDE OVHD BLDR	08/08/2012	VIS	F	CON-PLG	08/08/2012	CON-TPL G	2034.00	
				08/08/2012	M21	2034 PPM					
				08/08/2012	M21	84.37 PPM					
				08/08/2012	VIS	P					08/08/2012
4269.02	CONNECTOR/ PLUG	0.50	TK 81 S SIDE BTM BLDR @SG	08/07/2012	VIS	F	CON-PLG	08/07/2012	CON-CLA	1524.00	
				08/07/2012	M21	1524 PPM					
				08/07/2012	M21	2280 PPM		08/07/2012	CON-TP	31.00	
				08/07/2012	M21	31 PPM					
				08/07/2012	VIS	P					08/07/2012
4271.01	CONNECTOR/ SCREWED	0.50	TK 81 S SIDE BTM BV	08/07/2012	VIS	F	CON	08/07/2012	CON-CLA	4773.00	
				08/07/2012	M21	4773 PPM		08/07/2012	CON-CLA	27000.00	
				08/07/2012	M21	27000 PPM					
				08/07/2012	M21	26000 PPM		08/07/2012	CON-TFI	0.00	
				08/07/2012	M21	0 PPM		08/20/2012	CON-TP	0.00	
				08/20/2012	VIS	P					
				08/20/2012	M21	15 PPM					08/20/2012

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 09/30/2012

Process Unit : 02

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
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Process Unit 02 Summary

	Component Count	Leak Count
Total in Group	52	52
Total Valves	10	10
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	42	42
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 09/30/2012

Process Unit : 05

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
41427	CONNECTOR/ FLANGE	8.00	5V36 FLG. 3RD DECK S.W. SIDE OF VESSEL								
				08/10/2012	VIS	F	CON-FLG	08/10/2012	CON-CLA	1201.00	
				08/10/2012	M21	1201 PPM					
				08/10/2012	M21	1778 PPM		08/13/2012	CON-CLA	250.00	
				08/13/2012	M21	250 PPM					
				08/13/2012	VIS	P					08/13/2012

Process Unit 05 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	0	0
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	1	1
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 09/30/2012

Process Unit : 07

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2-01138	PUMP/ CENTRIF	0.00	7P41 FLARE POT PUMPS-07-07								
				07/23/2012	VIS	F	PMP-SEAL	07/23/2012	PMP-WS E	578.00	
				07/23/2012	M21	578 PPM					
				07/23/2012	M21	132 PPM					
				08/01/2012	VIS	P					08/01/2012

Process Unit 07 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	0	0
Total Pumps	1	1
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 09/30/2012

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2-01602	VALVE/ GATE	0.75	SW OF 9V38 OVHD	07/19/2012	M21	8295 PPM	VLV-PKG	07/20/2012	VLV-TP	50.00	
				07/20/2012	M21	50 PPM					07/20/2012

Process Unit 09 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 09/30/2012

Process Unit : 14

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
30641	VALVE/ GATE	2.00	WATER BOOT 5FT W OF 14V6 10 FT HI	07/18/2012	M21	1765 PPM	VLV-PKG	07/18/2012	VLV-CL	38500.00	
				07/18/2012	M21	38500 PPM		07/19/2012	VLV-TP	270.00	
				07/19/2012	M21	270 PPM					07/19/2012

Process Unit 14 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 09/30/2012

Process Unit : 29

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
11765.01	CONNECTOR/ FLANGE	12.00	NORTH WEST SIDE OF 29T47 TOP	07/10/2012	M21	3767 PPM	CON-FLG	07/10/2012	CON-CLA	2451.00	
				07/10/2012	M21	2451 PPM		07/23/2012	CON-TC ON	42.00	
				07/23/2012	M21	42 PPM					07/23/2012
11889	VALVE	0.00	20' EAST OF KVP BUILDING @ NORTH SIDE OF 4 BAY 6' WEST OF FENCE	06/22/2012	M21	661 PPM	VLV-PKG	06/22/2012	VLV-CL	1421.00	
				06/22/2012	M21	1421 PPM		07/03/2012	VLV-TP	0.00	
				07/03/2012	M21	0 PPM					07/03/2012

Process Unit 29 Summary

	Component Count	Leak Count
Total in Group	2	2
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	1	1
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 09/30/2012

Process Unit : 34

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
5037	VALVE/ WTR DRW	6.00	SOUTH SIDE TK116	07/03/2012	M21	816 PPM	VLV-CAP	07/03/2012	ATSC	633.00	
				07/03/2012	M21	633 PPM		07/05/2012	VLV-TCA P	2.00	
				07/05/2012	M21	2 PPM					07/05/2012
5051	VALVE	6.00	SOUTH EAST SIDE TK118	07/03/2012	M21	2166 PPM	VLV-CAP	07/03/2012	VLV-CL	1109.00	
				07/03/2012	M21	1109 PPM		07/05/2012	VLV-CL	26.00	
				07/05/2012	M21	26 PPM					07/05/2012
5148	VALVE	12.00	EAST SIDE OF TK104	07/09/2012	M21	1169 PPM	VLV-PKG	07/09/2012	VLV-CL	1058.00	
				07/09/2012	M21	1058 PPM		07/11/2012	VLV-TCA P	10.00	
				07/11/2012	M21	10 PPM					07/11/2012
5153	VALVE	8.00	SOUTH SIDE OF TK107	07/09/2012	M21	561 PPM	VLV-CAP	07/09/2012	ATTB	992.00	
				07/09/2012	M21	992 PPM		07/11/2012	TBL	2.00	
				07/11/2012	M21	2 PPM					07/11/2012
5244	VALVE/ WTR DRW	6.00	SOUTH WEST SIDE OF TK109 WATER DRAW	07/12/2012	M21	797 PPM	VLV-SEL	07/12/2012	ATTB	1351.00	
				07/12/2012	M21	1351 PPM		07/13/2012	VLV-CL	19.00	
				07/13/2012	M21	19 PPM					07/13/2012
5247	VALVE/ WTR DRW	6.00	SOUTH EAST SIDE OF TK109 WATER DRAW	07/12/2012	M21	2577 PPM	VLV-SEL	07/12/2012	ATTB	1782.00	
				07/12/2012	M21	1782 PPM		07/13/2012	VLV-CL	102.00	
				07/13/2012	M21	102 PPM					07/13/2012

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 09/30/2012

Process Unit : 34

Compliance Group : 16

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
5261	VALVE/ WTR DRW	6.00	EAST SIDE OF TK109 @ CATWALK WATER DRAW								
				07/12/2012	M21	8832 PPM	VLV-SEL	07/12/2012	ATTB	2292.00	
				07/12/2012	M21	2292 PPM		07/13/2012	VLV-CL	150.00	
				07/13/2012	M21	150 PPM					07/13/2012

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2012 - 09/30/2012

Process Unit : 34

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
5365	VALVE	6.00	SOUTH OF TK113	07/10/2012	M21	1104 PPM	VLV-CAP	07/10/2012	VLV-CL	2652.00	
				07/10/2012	M21	2652 PPM		07/11/2012	VLV-CL	15.00	
				07/11/2012	M21	15 PPM					07/11/2012
5599	VALVE	6.00	SOUTH SIDE OF TK114	07/11/2012	M21	591 PPM	VLV-CAP	07/11/2012	VLV-CL	169.00	
				07/11/2012	M21	169 PPM					07/11/2012
5619	VALVE	6.00	SOUTH WEST SIDE OF TK115	07/11/2012	M21	1067 PPM	VLV-CAP	07/11/2012	VLV-CL	1761.00	
				07/11/2012	M21	1761 PPM		07/12/2012	VLV-CL	8.00	
				07/12/2012	M21	8 PPM					07/12/2012
5858	VALVE	0.00	SOUTH WEST SIDE OF TK130	07/12/2012	M21	856 PPM	VLV-PKG	07/12/2012	VLV-CL	3440.00	
				07/12/2012	M21	3440 PPM		07/13/2012	VLV-TCA P	113.00	
				07/13/2012	M21	113 PPM					07/13/2012

Process Unit 34 Summary

	Component Count	Leak Count
Total in Group	11	11
Total Valves	11	11
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Table 5
Michigan Refining Division
Third Quarter End of Line Calculations

Q3 2012		S1	S2	S3a	S3b	S7	S4	S5	S6	Monthly Total (kg)
		Sand Filter Effluent	29T40/41	Centrifuge Solids	29T12	29T47	Vacuum Truck	Miscellaneous	Spent Causitic	
July-12	Individual	0.093	146.67	0.85	2.50	18.67				
		0.001	140.00	0.15	1.00	1.43				
		0.03	50.00	0.25	1.00	2.37				
		0.26	55.33	0.61	2.50	4.72				
	Average Sample Results (ppm)	0.10	98.00	0.47	1.75	6.80				
	Waste Volume (gallons/month)	90,445,104	0	360,060	63,000	22,500				
	Waste Amount (kg)	342,869,167	0	163,664	238,856	85,306				
	Monthly EOL Benzene Quantity (kg)*	32.80	0.00	0.08	0.42	0.58	236.40	0.00	0.54	272.81
	Individual	0.10	47.87	0.23	2.50	12.77				
		0.14	--	--	--	--				
		0.002	145.67	0.62	2.50	21.33				
		0.001	173.33	0.24	2.50	17.00				
August-12	Individual	0.042	42.67	0.25	2.50	18.00				
	Average Sample Results (ppm)	0.06	102.58	0.33	2.50	17.28				
	Waste Volume (gallons/month)	60,692,544	0	737,100	154,000	20,761				
	Waste Amount (kg)	230,079,917	0	335,045	583,870	78,713				
	Monthly EOL Benzene Quantity (kg)*	12.93	0.00	0.11	1.46	1.36	215.51	0.00	0.14	231.51
	Individual	0.03	101.00	0.25	2.50	13.67				
		0.47	143.33	0.25	2.50	16.00				
		0.44	46.67	0.04	2.50	8.37				
		0.63	28.00	0.74	2.50	14.93				
September-12	Individual									
	Average Sample Results (ppm)	0.39	79.75	0.32	2.50	13.24				
	Waste Volume (gallons/month)	38,550,384	0	162,600	33,000	6,977				
	Waste Amount (kg)	145,141,001	0	73,909	0	26,452				
	Monthly EOL Benzene Quantity (kg)*	57.26	0.00	0.02	0.00	0.35	37.14	7.03	0.00	101.81
	Individual									

*For non-detect results, 1/2 the detection limit is used in the calculated quantity.

Quarterly Benzene	103.00	0.00	0.21	1.88	2.29	491.05	7.03	0.67	606.13
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Third Quarter EOL Benzene Quantity (Mg):	0.60613	Third Quarter EOL Benzene Quantity (Kg):	606.13
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Table 10
BWON Inspections - Third Quarter 2012
Michigan Refining Division

Complex	Unit	Tag ID	Date	Service/Description	First Attempt	Recommended Fix	Final repair
1	29	N/A	10/21/2010	API Separator	Replace Latch	Replace Latch	Latch Replaced
1	29	N/A	11/2/2010	API Skim Pit	Caulk Cover	Caulk Cover	Cover Caulked
1	4	4T23	5/18/2011	Water Draw on Bottom of 4T23	Tightened Latch	Tighten Latch	Latch Tightened
1	29	29T40	11/14/2011	Open Gauge Hatch on Top of 29T40	Close Hatch	Close Hatch	Hatch Closed
1	29	N/A	11/21/2011	API Separator Doors Unlatched	Latch Lid	Latch Lid	Lid Latched
5	34	5318	6/25/2012	Water Draw E Side of Tank 112	Tightened Bolts	Tighten Bolts	Bolts Tightened
5	34	5305	6/25/2012	Water Draw SW Side of Tank 112	Tightened Bolts	Tighten Bolts	Bolts Tightened
5	34	5598	6/25/2012	Water Draw SW Side of Tank 114	Tightened Bolts	Tighten Bolts	Bolts Tightened
1	N/A	1-1	7/31/2012	BWON Used/Slop Oil Drum 1-1	Latch Lid	Latch Lid	Lid Latched
1	N/A	L-2	7/31/2012	BWON Used/Slop Oil Drum L-2	Latch Lid	Latch Lid	Lid Latched
1	N/A	1-10	7/31/2012	BWON Used/Slop Oil Drum 1-10	Latch Lid	Latch Lid	Lid Latched
1	N/A	1-3	7/31/2012	BWON Used/Slop Oil Drum 1-3	Latch Lid	Latch Lid	Lid Latched
1	N/A	1-5	7/31/2012	BWON Used/Slop Oil Drum 1-5	Latch Lid	Latch Lid	Lid Latched
2	N/A	2-1	7/31/2012	BWON Used/Slop Oil Drum 2-1	Latch Lid	Latch Lid	Lid Latched
3	N/A	3-3	7/31/2012	BWON Used/Slop Oil Drum 3-3	Latch Lid	Latch Lid	Lid Latched
4	N/A	4-1	7/31/2012	BWON Used/Slop Oil Drum 4-1	Latch Lid	Latch Lid	Lid Latched
N/A	N/A	M-3	7/31/2012	BWON Used/Slop Oil Drum M-3	Latch Lid	Latch Lid	Lid Latched
1	N/A	N/A	8/10/2012	RANE Vapor Hose	Replace Hose	Replace Hose	Hose Replaced
2	N/A	N/A	9/14/2012	BWON Used/Slop Oil Drum	Latch Lid	Latch Lid	Lid Latched
2	N/A	N/A	9/14/2012	BWON Used/Slop Oil Drum	Latch Lid	Latch Lid	Lid Latched
2	N/A	N/A	9/14/2012	BWON Used/Slop Oil Drum	Latch Lid	Latch Lid	Lid Latched
4	14	4-1	9/15/2012	BWON Used/Slop Oil Drum 4-1	Latch Lid	Latch Lid	Lid Latched
1	N/A	N/A	9/15/2012	BWON Used/Slop Oil Drum	Latch Lid	Latch Lid	Lid Latched
1	N/A	N/A	9/15/2012	BWON Used/Slop Oil Drum	Latch Lid	Latch Lid	Lid Latched
1	N/A	N/A	9/15/2012	BWON Used/Slop Oil Drum	Latch Lid	Latch Lid	Lid Latched
1	N/A	N/A	9/16/2012	BWON Used/Slop Oil Drum	Latch Lid	Latch Lid	Lid Latched
4	14	4-1	9/18/2012	BWON Used/Slop Oil Drum 4-1	Latch Lid	Latch Lid	Lid Latched